

Name : Dhivya R
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Year of Experience : 7 Years, 6 Months



Professional Summary

A committed Chemistry Educator with over seven years of teaching experience at both undergraduate and postgraduate levels. Currently serving as Head and Assistant Professor in the Department of Chemistry at Sri Sarada Niketan College of Science for Women, Karur. Possesses a strong academic foundation with B.Sc. and M.Sc. degrees in Chemistry, complemented by professional teaching qualifications (B.Ed. and M.Ed.), enabling effective, student-centred pedagogy. Actively contributes to academic administration, curriculum implementation and institutional quality assurance and is presently serving as IQAC and NIRF Joint Coordinator, playing a key role in accreditation processes, data management and quality enhancement initiatives. In addition, actively involved in student mentoring and various committee responsibilities, supporting institutional governance and academic planning. Has significant experience in organizing seminars, workshops, conferences and faculty development programmes, contributing to enriched learning experiences and departmental growth. Dedicated to fostering a motivating and inclusive learning environment, mentoring students in project work and research activities, and contributing consistently to the academic excellence and quality culture of the institution.

Education Qualification

Degree	Branch	Institution / University	Year of Passing
M.Ed.	Education	Kaliammal College of Education, Karur.	2018
B.Ed	Education	Kaliammal College of Education, Karur.	2015
M.Sc	Chemistry	PSGR Krishnammal College for Women, Coimbatore.	2012
B.Sc	Chemistry	Government Arts College, Karur.	2010

Work Experience

Name of the Institution	Address of the Institution	Year of Experience
Sri Sarada Niketan College of Science for Women	Esanatham Road, Kodangipatti, Karur-5	6 Years, 6 Months (2019-Tilldate)
Kaliaamal College of Education	Pavithram, Karur-2	1 Year (2017-2018)
K.S.V Matriculation School	Jegathabi, Thulasikodumbhu Karur -639118	1 Year (2016-2017)

Academic Position and Other Responsibilities at SSNCK

- Appointed as **Assistant Professor** of Chemistry from 17.06.2019 to the present.
- Contributed as a Member, **NAAC Criteria II** during 2019–2020.
- Served as a Member of the Certificate Course Committee during the academic year 2020–2021.
- Managed **NAAC Criteria II Incharge** responsibilities from 2020 to 2024.
- Oversaw **Stock Register Incharge** duties from 2021 to 2023.
- **Coordinated the Mentor–Mentee Programme** from 2022 to 2024.
- Appointed as **IQAC Joint Coordinator** from 01.03.2024 onwards.
- Serving as **NIRF Joint Coordinator** from 01.03.2024 to the present.
- Appointed as **Head of the Department (HOD)**, Chemistry from 01.06.2024 onwards.
- **Member of the Academic Council** from 2025 to the present.
- Functioning as **Joint Coordinator for Admissions** from 2025 onwards.
- Contributing as a **Member of the Calendar Committee** from 2025 to the present.
- Participating as a **Member of the Website Committee** from 2025 to the present.

Resource person

- ❖ Lecture talk on “**Chemicals in beauty products**” organized by Department of Computer Science, Sri Sarada Niketan College of Science for women, Karur during 30.08.2024.
- ❖ Lecture talk on “**Mental Health Awareness**” organized by Department of Microbiology, Sri Sarada Niketan College of Science for women, Karur during 18.07.2024.

Academic Projects / Fellowships

- Selected as a **Summer Research Fellow** at the **Indian Institute of Science Education and Research (IISER), Kolkata**, from May to July 2011, and worked on the project “*Synthesis, Characterization & Photophysical Studies of Thiosemicarbazone-based Ruthenium Complexes*” under the guidance of **Dr. Parna Gupta Bhattacharyya**, Industrial Chemistry Laboratory, IISER – Kolkata.
- **M.Sc. Project:** Conducted at the **Central Leather Research Institute (CLRI), Chennai**, from December 2012 to February 2013, on “*Synthesis & Characterization of Beta Unusual Amino Acids*” under the guidance of **Dr. Thennarasu**, Principal Scientist, Organic Chemistry Laboratory, CLRI – Chennai.

Award and Recognition

- **“Thirukural Ulaga Nool Aaivu Mamani Virudhu”** by Ulaga Thirukural Maiyam

Books Published

- ***M.Sc. Inorganic Chemistry Lab Manual***, authored by **Dhivya R**, published in 2025 by Sri Sarada Niketan College of Science for Women, Karur (ISBN: 978-81-982909-9-1).
- ***Organic Chemistry Lab Manual***, authored by **Dhivya R**, published in 2025 by Sri Sarada Niketan College of Science for Women, Karur (ISBN: 978-81-982909-2-2).
- ***Physical Chemistry Lab Manual***, authored by **Dhivya R** published in 2025 by Sri Sarada Niketan College of Science for Women, Karur (ISBN: 978-81-982909-3-9).

Publication in Books

- ***“Magnetic Nanomaterials for Solar Energy Conversion Applications” (Chapter 10)***, authored by **R. Dhivya**, N. Karthikeyan, S. Kulandai Tererse, R. Thenmozhi, A. Judith Jayarani, M. Swetha, F. Caballero-Briones, and G. Sahaya Dennish Babu, was published in the **book “Nanostructured Magnetic Material: Functionalization and Diverse Application”** published by CRC Press, USA, First Edition, 2024, ISBN: 978-1-032-36982-2 (HBK) / 978-1-032-37159-7 (PBK) / 978-1-003-33558-0 (EBK), DOI: 10.1201/9781003335580.
- ***“Functionalized Nanomaterial for Optoelectronic Devices Application” (Chapter 8)***, authored by G. Sahaya Dennish Babu, A. Judith Jayarani, G. Mahalakshmi, **R. Dhivya**, R. Thenmozhi, and M. Swetha, was published in the **book “Functionalized Nanomaterial for Optoelectronic Devices”** published by Wiley–Scrivener, USA, First Edition, 2025, ISBN: 978-1-394-21407-5.

Conference Proceedings

- **“Applications of Graph Theory in Chemistry”**, authored by **R. Dhivya** & M. Gayathri, presented at the ***International Conference on Interdisciplinary Approaches in Mathematics and Science***, Sri Sarada Niketan College of Science for Women, Karur, **09.02.2024**, ISBN: 978-93-49201-56-9, published by Sri Sarada Niketan College of Science for Women, Karur.
- **“Thirukuralil Pooriyal Sinthanaigal,”** authored by **R. Dhivya**, presented at the International Conference on **“Thiruvalluvarin Poriyal Sinthanaigal,”** organized by Sri Sarada Niketan College of Science for Women, Karur, in collaboration with Ulaga Thirukural Maiyam and World Book of Records, held on 25 January 2025 (ISBN: 978-81-966789-1-3). Published by Ilanthuli Pathippagam, Theni.

- **“Functionalized Nanomaterial for Application in Optoelectronic Devices,”** authored by R.Dhivya, presented at the **International Conference on Interdisciplinary Approaches in Mathematics and Physical Sciences**, organized by Shrimati Indira Gandhi College, Tiruchirappalli, on 20 September 2023 (ISBN: 978-81-19587-70-4; E-ISBN: 978-81-19587-61-2).

Research Papers Presented

- **“Applications of Graph Theory in Chemistry”**, authored by R. Dhivya & M. Gayathri, presented at the *International Conference on Interdisciplinary Approaches in Mathematics and Science*, Sri Sarada Niketan College of Science for Women, Karur, **09.02.2024**, ISBN: 978-93-49201-56-9, published by Sri Sarada Niketan College of Science for Women, Karur.
- **“Thirukuralil Pooriyal Sinthanaigal,”** authored by R. Dhivya, presented at the International Conference on **“Thiruvalluvarin Poriyal Sinthanaigal,”** organized by Sri Sarada Niketan College of Science for Women, Karur, in collaboration with Ulaga Thirukural Maiyam and World Book of Records, held on 25 January 2025 (ISBN: 978-81-966789-1-3). Published by Ilanthuli Pathippagam, Theni.

Publication in Journals

- **“Synthesis of Unusual Amino Acids”**, authored by R. Dhivya, Published in Vol. 9, Issue 8, Page No : 16-18, August 2025, of International Journal of Advance Scientific Research and Engineering Trends (**IJASREM**) with ISSN (Online): **2456-0774**, Peer Reviewed and Referred Journal Impact Factor 6.228. DOI : 10.51319, Paper ID : IJASRET407341.
- **“Historical Development and Emerging trends in nanoscience”**, authored by R. Dhivya, and Chinnamuthammal S Published in Vol. 9, Issue 1, Page No : 06-12, Jan - Feb 2026, of International Journal of Scientific Research and Engineering Development (**IJSRED**) with ISSN (Online): **2581-7175**, Peer Reviewed and Referred Journal Impact Factor 5.735.DOI : 10.5281/ Zenodo18151007, Paper ID : IJSRED – V911P02.
- **“A Thorough Overview of Current Developments in Imidazole Derivatives for Anticancer Drug development”**, authored by R. Dhivya Published in Vol. 9, Issue 1, Page No : 01-05, Jan - Feb 2026, of International Journal of Scientific Research and Engineering Development (**IJSRED**) with ISSN (Online): **2581-7175**, Peer Reviewed and Referred Journal Impact Factor 5.735. DOI : 10.5281/ Zenodo18150994, Paper ID : IJSRED – V911P01.
- **“Optimization of Kraft Pulping: Investigation of the Role of Chemicals at Each Process Stage”** authored by R. Dhivya, M. Gomathy and S. Durga devi Published in Vol. 14, Issue 1, Page No : 38-55, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, Paper ID : IJEDR2601008.
- **“Variation In Physico – Mechanical Properties of Market Samples of EUCA Wood”** authored by R. Dhivya, Elavarasi L and Preetha J Published in Vol. 14, Issue 1, Page No : 240-255, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, Paper ID : IJEDR2601037.

- **“Extraction of Hemicelluloses from Ehcas Wood Before Kraft Cooking”** *authored by R. Dhivya*, M Gomathy and S Durga devi Published in Vol. 14, Issue 1, Page No : 325 - 344, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, Paper ID : IJEDR2601049.
- **“Exploring Alternatives to Hardwood in Paper Production Using Chemi-Biological Pulp (CBP) and Deinked Pulp (DIP)”** *authored by R. Dhivya*, Gomathy M and Elavarasi L Published in Vol. 14, Issue 1, Page No : 473 - 495, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, , Paper ID : IJEDR2601065.
- **“Synthesis Of β – Aminoacids And Their Amide Derivatives With Indole Acetic Acid”** *authored by R. Dhivya*, Published in Vol. 14, Issue 1, Page No : 716-729, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, , Paper ID : IJEDR2601099.
- **“Effectiveness of Copper Aluminium Carbonate Layered Double Hydroxide for the Adsorptive Removal of Anionic Pollutant from Aqueous Solution :Equilibrium, Kinetics, Isotherm”** *authored by R. Dhivya*, Published in Vol. 14, Issue 1, Page No : 747-770, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, , Paper ID : IJEDR2601102.
- **“REACTIVE YELLOW 14 DYE BY USING IXORA COCCINEA”** *authored by R. Dhivya* Published in Vol. 4, Issue 1, Page No : 326-335, Jan 2026, of International Research Journal – Journal of Advance And Future Research (**JAAFR**) (**UGC Care Approval Journal**) with ISSN (Online): **2984-889X**, Peer Reviewed and Referred Journal Impact Factor 9.87. Paper ID : JAAFR2601289.
- **“Preparation Of Copper Zinc Tin Selenide (Cu₂Znsnse₄) Quaternary Chalcogenide Nanoparticles For Energy Conversion Application”** *authored by R. Dhivya*, Published in Vol. 14, Issue 1, Page No : 410-426, Jan 2026, of International Journal of Engineering Development and Research (**IJEDR**) (**UGC Care Approval Journal**) with ISSN (Online): **2321-9939**, Peer Reviewed and Referred Journal Impact Factor 9.37. DOI : 10.56975, , Paper ID : IJEDR2601179.

Conferences / Workshops / Seminars/ FDP Attended

- Education Programme on **“Chem – Amigo 2010”**, organized by Bishop Heber College, Tiruchirappalli on 10 March 2010.

- Lecture Programme on **“Advances in Chemistry”**, organized by **PSGR Krishnammal College Coimbatore**, on 07–08 October 2010.
- Education Programme on **"The Chem Fiesta – Resonance 2011"** organized by **Gandhigram Rural Institute, Dindigul** on 23.02.2011.
- Workshop on **"Innovative Strategies in Teaching"** organized by **Kaliammal College of Education, Karur** on 20.12.2014.
- National Seminar on **"Environment and Hygiene"** organized by **Annammal College of Education, Thoothukudi** on 15.12.2017.
- National Webinar on **"National Consumer Protection Awareness Programme - 2020"** organized by **Consumer Affairs and Trade (CAT), Tamil Nadu** on 24.12.2020.
- International Webinar on **"Recent Trends in Chemical & Physical Sciences"** organized by **Nilkanthrao Shinde College, Pune** on 28.09.2021.
- International Virtual Seminar on **"Energy Storage and E-Mobility"** organized by **Karpagam Academy of Higher Education, Coimbatore** on 02.03.2022.
- National Workshop on **"Roadmap of NAAC Assessment and Accrediation for Quality Assurance and Sustenance in Higher Educational Institutions"** organized by **Gandhigram Rural Institute, Dindigul** on 31.03.2022.
- National Conference on **"NAAC Process – Preparation and Clarification"** organized by **Sri Sarada Niketan College of Science for Women, Karur** on 14.05.2022.
- National Skill Development Programme on **"Green Audit & Energy Audit in HEI's"** organized by **IOT Academy, Coimbatore** on 30.08.2022.
- Faculty Development Programme on **"Good Manufacturing Practices"** organized by **Government of Tamil Nadu under Naan Mudhalvan** from 17.07.2023 to 22.07.2023.
- National Virtual Faculty Development Programme on **"Innovative Teaching Methods and ICT Tools"** organized by **IOT Academy, Coimbatore** from 20.07.2023 to 21.07.2023.
- National Virtual Faculty Development Programme on **"Innovative Teaching and ICT Tools for HEI's"** organized by **IOT Academy, Coimbatore** from 25.08.2023 to 26.08.2023.
- International Conference on **"Interdisciplinary Approaches in Mathematics and Physical Sciences"** organized by **Shrimati Indira Gandhi College, Tiruchirappalli** on 20.09.2023.
- State Level Seminar on **"Indian Knowledge System"** for College Professors organized by **Bharathiya Ithihas Samkalana Samiti (BISS)** at Valluvar Hotel, Karur on 05.01.2024
- Faculty Development Programme on **"EV Battery Management"** organized by **Government of Tamil Nadu under Naan Mudhalvan** from 22–24 January 2024 and 29–30 January 2024.
- International Conference on **"UMAGINE TN Global Conference"** organized by **IT & Digital Services Department** from 23.02.2024 to 24.02.2024.
- Faculty Development Programme on **"Good Manufacturing Practices – Quality Assurance"** organized by **Government of Tamil Nadu under Naan Mudhalvan** from 18.06.2024 to 23.06.2024.
- International Conference on **"Emerging Trends in Mathematics & Physical Sciences"** organized by **Shrimati Indira Gandhi College, Tiruchirappalli** on 24.09.2024.
- International Workshop on **"Read for Success @ 5.30 am"** organized by **WISDOM Academy** from 05.10.2024 to 10.10.2024.
- **National Educational Programme** organized by **Vidya Bharati Uchcha Shiksha Sansthan (VBUSS)** from 01.11.2024 to 02.11.2024.
- Faculty Development Programme on **"Idea Generation Method"** organized by **ICT Academy at Shrimati Indira Gandhi College, Tiruchirappalli** from 12.12.2024 to 14.12.2024.
- **Webinar** on **“Cognitive Load in Science Learning”**, organized by **Next Education**

(Headquartered in Hyderabad, Telangana, India), held online on 24.12.2025.

- **Webinar** on “**From Hesitation to Readiness- Helping Educators Adopt Technology and Confidence**”, organized by **Next Education** (Headquartered in Hyderabad, Telangana, India), held online on 31.12.2025.

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Conferences / Workshops / Seminars / FDP Organized

- National Webinar on "**Basics of Medicinal Chemistry**" organized by PG Department of Chemistry, **Sri Sarada Niketan College of Science for Women, Karur** on 19.05.2021.
- National Webinar on "**Intellectual Property Rights**" organized by PG Department of Chemistry, **Sri Sarada Niketan College of Science for Women, Karur** on 02.06.2021.
- National Webinar on "**Drug Discovery Research Academic Via – a – vis Industry**" organized by PG Department of Chemistry, **Sri Sarada Niketan College of Science for Women, Karur** on 12.06.2021.
- National Webinar on "**How to Write Research Proposal**" organized by PG Department of Chemistry, **Sri Sarada Niketan College of Science for Women, Karur** on 14.07.2021.
- One Day National Conference on "**Emerging Trends in Bio-Chemical Sciences (ETIBCS-2K22)**" Organized by PG Department of Chemistry and Microbiology, **Sri Sarada Niketan College of Science for Women, Karur** on 22.04.2022.
- One Day International Conference on "**Interdisciplinary Approaches in Mathematics and Sciences (IAM-2K24)**" Organized by PG Department of Chemistry , Mathematics, Microbiology and Department of Physics **Sri Sarada Niketan College of Science for Women, Karur** on 09.02.2024
- State Level Workshop on "**Mushroom Cultivation**" organized by PG Department of Chemistry and Department of Microbiology, **Sri Sarada Niketan College of Science for Women, Karur** on 05.09.2024.
- One day State Level Faculty Development Programme on "**Research and Teaching in AI Era**" Organized by IQAC and Staff Welfare Committee , **Sri Sarada Niketan College of Science for Women, Karur** on 11.06.2025.

E-Content:

S.No	Subject	Link
1	Organic Chemistry	https://www.slideshare.net/slideshow/chemistry-carboxylic-acids-and-their-reactions/273423280

		https://www.slideshare.net/slideshow/organic-chemistry-aromaticity-reaction-mechanism/273423942 https://www.scribd.com/document/955730632/Fisher-Sawhorse-Wade-Dash-Conversion https://www.scribd.com/document/955732362/Aromatic-It-y https://www.scribd.com/document/955907530/Stereo-Chemistry
2	Inorganic Chemistry	https://www.slideshare.net/slideshow/valence-shell-electron-pair-theory-vsepr/273423659 https://www.scribd.com/document/955868445/Hydrogen-Bonding https://www.scribd.com/document/955884030/Atomic-Term-Symbol https://www.scribd.com/document/955886184/Electron-Deficient-Molecules https://www.scribd.com/document/955887070/Intermolecular-Forced https://www.scribd.com/document/955891912/Dipole-Moments-Polar-and-Non-Polar-Molecules https://www.scribd.com/document/955894196/Organometallic-Compounds https://www.scribd.com/document/955894886/Spinel-and-Inverse-Spinels https://www.scribd.com/document/955897550/Electron-Affinity https://www.scribd.com/document/955897909/Molecular-Term-Symbol https://www.scribd.com/document/955898300/Band-Theory https://www.scribd.com/document/955898540/Hard-Acid-and-Hard-Base-HSAB https://www.scribd.com/document/955898873/Ionization-Energy https://www.scribd.com/document/955899156/Metal-Ligands https://www.scribd.com/document/955907802/Percentage-of-Ionic-Character-Calculation

		https://www.scribd.com/document/955908718/VSEPR https://www.scribd.com/document/955909287/Effective-Nuclear-Charge-Zeff https://www.scribd.com/document/955909815/Bond-Order-Calculation https://www.scribd.com/document/955910176/Atomic-and-Ionic-Radius https://www.scribd.com/document/955910594/Magnetic-Properties https://www.scribd.com/document/955910969/Electro-Negativity https://www.slideshare.net/slideshow/inorganic-chemistry-organometallic-compounds/273423738
	new	https://www.scribd.com/document/990217831/III-b-Sc-o-c-II-Unit-III
3	Physical Chemistry	https://www.scribd.com/document/955871892/Chemical-Equilibrium https://www.scribd.com/document/955876256/Surface-Chemistry https://www.scribd.com/document/955883415/Group-Theory https://www.scribd.com/document/955885132/Phase-Rule https://www.slideshare.net/slideshow/chemistry-group-theory-point-group-key-notes-pdf/284327905 https://www.slideshare.net/slideshow/quantum-chemistry-slater-determination-key-notes-pdf/284327979 https://www.scribd.com/document/955907171/Electrochemistry https://www.scribd.com/document/955908311/Microstates-Ways-of-Arrangements https://www.scribd.com/document/955731905/Quantum-Chemistry-2-Notes
4	Analytical Chemistry	https://www.scribd.com/document/955881549/Thermal-Analysis https://www.slideshare.net/slideshow/spectroscopy-microwave-

		spectra-key-notes-pdf/284328025 41. https://www.slideshare.net/slideshow/physical-chemistry-electronic-spectroscopy/273423837 https://www.slideshare.net/slideshow/spectroscopy-raman-spectroscopy-key-notes-pdf/284319089 https://www.scribd.com/document/955875288/Chromatography
5	Youtube Chennel Videos	Organic Chemistry https://youtu.be/jvz4PnddyYU?si=2-QaQPQEIPa6YH_V https://youtu.be/nD1I9WHEY2g?si=IEL6HFKbrB-by2f- https://youtu.be/Kh8yAjO6n08?si=PD-wUWgBqbPaYPRk https://youtu.be/_Z16V3pwus0?si=oqKadyhBlbdpPEBU https://youtu.be/dY42reXNLIY?si=rOIox-4mWB7fVtnk https://youtu.be/v7wl0sJH2u4?si=gDneNRP7jLGo_Jhb https://youtu.be/HLTmcskDjjo?si=t3YH9_pSzusf-D7x
6		Inorganic Chemistry https://youtu.be/k7RV7BGfF_8?si=DRmjpRTIRFxdUWHi https://youtu.be/egGkm5YGvhU?si=HlasyoCaBy6uzFl https://youtu.be/V7u-xWQT0Qk?si=2Fvp96S-YLXD2Xis https://youtu.be/NZ3fjSazkww?si=qLxGoTLcctcz21G9 https://youtu.be/pgQZxs0JMU8?si=jLwsYj95K-6Klb3y https://youtu.be/cbtLazFBLzY?si=ksPytleRuM0QjQzq https://youtu.be/VLRoLXNGEVw?si=UiklxYsXAvqDI9Z9 https://youtu.be/pb8gtfJ4QHU?si=4UentwpV5kTg5FVM https://youtu.be/kXcnDEHYoP0?si=EuN5bKmOix0auwl2 https://youtu.be/UXl_QbUCKmk?si=xyyi1Eo0zCF_UY4l https://youtu.be/3j0XxIrUboY?si=K3z5nTGAfXA5y_kt https://youtu.be/RafAwGjx-zY?si=HIRNnQDaDgcV8Zwn https://youtu.be/vimkywtp-9U?si=0PWdVhBYGtK48XQj

		<u>https://youtu.be/SepeNXZl8W4?si=p5S0aA9GRlaXkFXx</u> <u>.https://youtu.be/71uYvIHLRh4?si=2T4reYm_DvXQBiPY</u> <u>https://youtu.be/DNr5qS3iOFE?si=pz3yNpwzSuwkWA9x</u> <u>https://youtu.be/NV9sGEOJbdw?si=etjuX3xIirmvLDoQ</u>
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