

TEJA P C

[Personal Portfolio](#) | (+1) 9402394143 | <https://www.linkedin.com/in/tejapc>

EDUCATION

University of North Texas, Denton, Texas, USA Master's in computer science	<i>Aug 2025 – Jun 2027</i> GPA: New
Bharath Institute of Higher Education and Research, Chennai, India Bachelor of Technology in Computer Science Engineering	<i>Aug 2018 – Jun 2022</i> GPA:9.33/10.0

TECHNICAL SKILLS

Language	: Java, C++, C, Python, CPP, R
Frameworks	: ReactJS, Angular, Maven, Spring-Boot, PyTorch, TensorFlow, Kubernetes (K8s)
Web Tech	: HTML, CSS, JavaScript, jQuery, Bootstrap
Databases	: MongoDB, Oracle, MySQL, PostgreSQL
Advanced Tech	: Machine Learning – NLP, Data Analysis, Docker, Kubernetes, linux
Other Tools	: Eclipse, Talend, JIRA, IntelliJ, NetBeans IDE, PyCharm, Jupyter Notebook – Google Collab.
Deployment	: GCP – App Engine, Cloud Build, Cloud RUN – CI/CD Pipelines.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Chennai, India GenAI & Data Engineer	<i>Aug 2022 – Present</i>
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- Led the Development of **Machine Learning Pipelines**: Utilized **Python** to develop and maintain machine learning software, focusing on automating data handling, model training, and evaluation processes.
- Implemented **Cloud-Based Solutions**: *Deployed scalable ML applications on GCP, ensuring optimal performance and reliability. Hands on CI/CD with GCP-Cloud Run.*
- Experience in Talend Development, Built Optimized ETL Jobs and SQL Queries. Developed optimized SQL view queries that handle more than **10 million** records seamlessly. Participated in regular quality audits and reviews to ensure adherence to best practices and compliance with data quality standards.
- I have Contributed to the development of documentation and training materials to promote quality awareness and knowledge sharing within the team.
- Received “**Best Team Member**” award for the year 2022 & 2024 – from Now Pensions Limited & Cotality TCS Teams respectively.

Tata Consultancy Services, Chennai, India	Software Engineer Intern	<i>Feb 2022 – Jun 2022</i>
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- Worked under TCS Client - Insurance company AVIVA and Developed a Real-Time Video Messaging model for Personalized Customer Experiences, including animation video generation.
- Utilized Natural Language Processing techniques (NLP) to generate Insurance premium details tailored to customer needs.

Ural Federal University, Yekaterinburg, Russia Researcher	Data Science Intern	<i>Jun 2019 – Aug 2019</i>
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- Led a project focused on predicting Solar Power Generation for the day ahead, utilizing data collected from a solar power plant in Astrakhan, Russia.
- Awarded a Diploma in Energy Track and achieved 1st place in the project competition.
- Enhanced machine learning model performance using K-Fold cross-validation and fine-tuned model parameters.

PROJECTS & RESEARCH WORKS

The Industrial Methods to Improve the Day-Ahead Solar Forecasting

- Developed Industry-Scale Photovoltaic Forecasting System – implemented machine learning-based photovoltaic forecasting system for a large-scale photovoltaic power plant within the Russian power system.

- Enhanced Forecasting Accuracy & Gained Expertise in Machine Learning Algorithms.
- Published a research paper in the Energies Journal with impact factor 5.0, 3000 Views and 10 Citations to the Paper. [\[LINK\]](#)

Predicting the Outcome of Supreme Court of India Appeal Cases Using HCNN

- Automated web scraping to collect data from original supreme court case transcripts, covering 70 years of judgment details.
- Expertly handled raw data and conducted essential data pre-processing. Employed TensorFlow neural networks for model development and harnessed Gensim modules for Word2Vec, SkipGram, and CBOW models.
- Published a significant paper in a Springer conference. [\[LINK\]](#)

Prediction of Solar Power Generation Based on Random Forest Regressor Model

- Successfully integrated retrospective metering data and open-source weather information to address feature identification and error metrics in the forecasting process.
- Demonstrated practical application by testing the system on a real solar power plant in the southern region of the Russian Federation. [\[LINK\]](#)

Strategic planning of renewable energy sources implementation following the country-wide goals of energy sector development

- Developed a comprehensive methodology for integrating renewable energy sources into strategic energy sector development plans, emphasizing the use of integrated technical, economic, and environmental criteria for decision-making.
- Illustrated the application of the developed methodology with a real-world example, generating a ranked list of renewable energy projects tailored to a specific regional power system, showcasing practical implementation of the research findings. [\[LINK\]](#)

Microgrid development for remote residential customers power supply

- Successfully developed an autonomous microgrid solution for remote residential customers' power supply, demonstrating expertise in addressing unique geographic challenges.
- Applied load forecasting and methodically determined optimal generation source capacities, prioritizing technological efficiency and environmental sustainability for the implemented autonomous microgrid. [\[LINK\]](#)

Personal Portfolio – Displaying Front-End Skills

Tools & Platform: ReactJS, NodeJS, ReactAPI's & Netlify (Deployed) [\[LINK\]](#)

- Created an impressive portfolio highlighting web development skills, featuring animations built with ReactJS.
- Built Login & Registration using Fire-Base, Included Google Authssentication Sign-in.
- Created Simple TIC-TAC-TOE game & SAAS Application to Expose real-time Component value change skill – ReactJS hooks Usage Knowledge. [\[LINK\]](#)

CERTIFICATIONS

- *Oracle Cloud Infrastructure 2023 Certified Application Integration Professional*
- *Machine Learning Course by Andrew Ng – Coursera Stanford | online*
- *How to Win a Data Science Competition: Learn from Top Kagglers – Coursera HSE-National University*
- *Research Paper Presentation Certification at ICAECT 2020 – Springer Journal Conference*

POSITIONS OF RESPONSIBILITY

<i>Student Member, Institute of Electrical and Electronics Engineers (IEEE), Chennai, India</i>	<i>2020 – 2021</i>
<i>Core Organizer, Data Structures & Algorithms Club, BIHER (DSAC), Chennai, India</i>	<i>2021 – 2022</i>

HONORS & AWARDS

- *Won Hackathon and Received Diploma in Ural Federal University*
- *Received Best Project Team Award from Ural Federal University*
- *Received a Grant of Rs 4,00,000 to Publish the Research Paper in Energies Journal.*