

PADMAJA SHARMA

+91 9079393667 ◊ padmaja121003@gmail.com

[LinkedIn](#) ◊ [GitHub](#) ◊ [Research Paper](#)

EDUCATION

Indian Institute of Technology Madras Expected 2025

BS in Data Science and Applications (CGPA: 7.62)

Relevant Coursework: Machine Learning Techniques and Practices, Business Analytics, Deep Learning, Data Visualization Design, Natural Language Processing, Large Language Models.

Birla Institute of Technology Mesra Expected 2025

BTech in Electronics and Communication Engineering (CGPA: 7.8)

WORK EXPERIENCE

Data Analyst Intern May 2024-August 2024

SuperBloom Studios

- Conducted a study on the **gender pay gap** in the Indian workforce, analyzing data from initial hiring stages through career phases. Collected data from 10 HR departments, 5 government sources, and 15 institutions, including IITs and NITs. Identified discrepancies of up to **20% in pay based on gender**.
- Developed actionable insights and recommendations to address gender pay disparities. Analyzed over **5,000 data points and 200 interviews** Presented findings to influence policy changes and enhance workplace gender equity, resulting in a **15% increase in female employee retention**.

Machine Learning Intern Publication June 2023-July 2023

Malviya National Institute of Technology

Jaipur, Rajasthan

- Orchestrated the preparation of a clean EMG signal dataset, integrating four types of noise, and deployed diverse **classification** approaches, achieving a **75.19% accuracy** with a five-layered LSTM network in 1.64 seconds.
- Demonstrated **resource-efficient** processing with low memory requirements. Advocated for adaptive filters, **reducing processing time by 25%** and enhancing user experience in prosthesis applications.

SKILLS

Technical Skills Python, R, SQL, Data Analytics, NLP, Deep Learning, LLM's, Power BI, Tableau.

Soft Skills Communication, Teamwork, Event-management, Creative thinking

PROJECTS

Data-Driven Business Optimization *Business Analysis, Data Mining, Microsoft Office*

- Spearheaded a project, utilizing advanced analytics techniques, resulting in a **15% increase in profitability** and **20% improvement in operational efficiency** through data-driven optimizations.
- Implemented **data-driven** strategies, **reducing excess inventory by 25%**, eliminating financial blockages, and enhancing decision-making processes, leading to more informed and effective business decisions.

Taxi Fare Guru: Predictive Modeling *Machine Learning, ETL, Data Analysis*

- Developed a comprehensive taxi fare **prediction** project utilizing polynomial regression, logistic regression, KNN, SVM, CART, Bagging, Boosting, and Multi-Layer Perceptron, resulting in a **30% accuracy improvement** compared to baseline models.
- Conducted hyperparameter tuning and algorithm evaluation, leading to **actionable insights** communicated effectively, showcasing proficiency in predictive modeling complexities.

AWARDS AND POSITIONS OF RESPONSIBILITY

- Harvard WCode Scholarship Recipient (2022): Selected for the Scholarship among **1,00,000** applicants.
- Executed a placement strategy resulting in a significant **30% surge in campus placement** offers and a notable **15% rise in industry partnerships as Placement Coordinator at IIT Madras**.