Prathipati Madhubabu

madhubabuprathipati458@gmail.com| +91 8143284597| LinkedIn: Madhu-Prathipati| GitHub: Madhu-Prathipati,github

PROFILE SUMMARY

Highly motivated AI/ML Engineering aspirant and B.Tech student (Computer Science & Business Systems) with validated experience in building **scalable Data Pipelines** (AWS Academy curriculum) and deploying ML models. Seeking to leverage strong foundational knowledge of **Deep Learning frameworks.**

EDUCATION

Sagi Rama Krishnam Raju Engineering College   **Bhimavaram, Andhra Pradesh**

B.Tech in Computer Science and Business Systems   *Expected Graduation, May 2026*

CGPA: 8.42

APSWR Junior College   **Narsapuram, Andhra Pradesh**

Intermediate in MPC   *2020-2022*

Marks: 916/100

A P S WRES SCHOOL   **Narsapuram, AndhraPradesh**

Marks: 573/600   *2019-2020*

WORK EXPERIENCE

AIML using Python • NIELIT (Virtual) • 06/2024 – 08/2024

- Acquired hands-on experience in training and **deploying machine learning models** (classification, regression, and clustering) for various tasks using **Python**.
- Focused on ensuring **optimal performance and reliability** of models in real-world applications, emphasizing foundational **Software Engineering Best Practices** for stable ML service delivery.
- Gained practical experience with core **Machine Learning & Data Science Frameworks**.

Data Engineering Virtual Internship • AICTE – Edu Skills / AWS Academy • 01/2025 – 03/2025

- Gained foundational knowledge in cloud principles necessary for designing **large-scale, distributed, and high-availability systems**.
- Developed core skills in building **scalable Data Pipelines (ETL/ELT)** using **Python** to preprocess and prepare high-quality data for Machine Learning consumption.

PROJECTS

Credit Card Approval Prediction Project [Project link]

Developed a predictive AI/ML model utilizing multiple algorithms (Random Forest, SVM, etc.) with a focus on comprehensive **Feature Extraction** and optimization. Designed the architecture to support scalable model serving, including deployment considerations for a **high-performance API using Fast API/FLASK**. Adhered to **software engineering best-practices** by implementing **Unit Tests** for validation and demonstrating **TDD** concepts.

Forest Fire Prediction Project [Project link]

Developed a predictive AI/ML system utilizing multiple algorithms and advanced **Feature Engineering** (encoding, scaling, imbalance handling). Designed the architecture for scalable model serving, adapting deployment for a high-performance web application (Stream lit). Adhered to **software engineering best-practices** by implementing quality assurance steps and planning for **TDD** integration. The project reinforces core **ML concepts** and production system deployment principles.

CERTIFICATIONS

Machine Learning using Python| Infosys Springboard Certificate

Data Science(Introduction)|CISCO Certificate

AWS Developer Associate| Infosys Springboard Certificate

SKILLS

AI/ML & Data Frame works: Python, **TensorFlow**, **Py Torch**, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.

Engineering & Deployment: Fast API, **FLASK** (Exposure), **TDD (Test-Driven Development)** (Conceptual), **Unit Testing**, **Distributed Systems** (Conceptual), **Data Pipelines (ETL/ELT)**, Stream lit.

Cloud & Platforms: AWS (from Internship), Git, GitHub, Linux Environment, Notebook, Microsoft VS code, Anaconda.

Programming & Data bases: C, Java, HTML, MySQL, MongoDB, SQL.