NAVEEN PULKAM

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Professional Summary

Motivated third-year B.Tech student in AI and Machine Learning with strong foundations in Python, OOP, and problem-solving. Passionate about building efficient software systems and applying AI/ML skills while quickly adapting to new technologies.

Education

VNR Vignana Jyothi Institute of Engineering and Technology *2023 – 2027*
B.Tech in Artificial Intelligence and Machine Learning CGPA: 9.17

Alphores Junior College *2021 – 2023*
Senior Secondary (XII), Science – Telangana State Board Percentage: 96.20%

Vivekananda Residential School *2021*
Secondary (X) – CBSE Percentage: 90.66%

Technical Skills

- **Programming Languages:** Python, C, JavaScript, SQL, R
- **Machine Learning & AI:** Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Data Analysis
- **Tools & Frameworks:** PyTorch, Scikit-learn, TensorFlow, FastAPI, Streamlit, Docker, OpenCV, Tableau, Git
- **Web Development:** HTML, CSS, JavaScript, Node.js

Projects

Cricket Score Predictor | Machine Learning Project *Jan 2026*
Technologies: Python, Pandas, Scikit-learn, XGBoost, Streamlit, GitHub

- Developed an end-to-end ML pipeline to predict final T20 cricket match scores using live match features including current score, balls remaining, wickets remaining, and current run rate (CRR).
- Performed feature engineering on match variables and compared the performance of Random Forest vs. XGBoost regression models for score prediction.
- Achieved $R^2 = 0.9870$ and MAE = 1.9576 using the XGBoost regressor, surpassing Random Forest (R^2: 0.9716, higher MAE).
- Implemented a cricket-specific overs handling mechanism to accurately represent match progress during live inference.
- Deployed the final model as an interactive real-time prediction web application on Streamlit Cloud and maintained the project on GitHub.

Digital Library Web Application – Full-Stack Project *Apr 2025*
Tools: JavaScript, Node.js, HTML, CSS

- Built and customized a full-stack JavaScript web application for managing and browsing digital books with separate client, admin, and server modules for users and administrators.
- Implemented features such as book listing, management, and user access flow using a Node.js-based backend and web frontend, gaining a thorough understanding of project structure and API flow.
- Source code: github.com/pulkamnaveen/digital-library

Aeroplane Crash Analysis and Risk Prediction *Feb 2025*
Tools: Python, Jupyter Notebook, Pandas, Matplotlib

- Developed a comprehensive data-driven analysis and risk prediction system for airplane crashes to enhance aviation safety insights using historical crash datasets.
- Performed extensive data cleaning, preprocessing, and feature engineering including survival rate calculations, aircraft type categorization, and temporal/spatial crash pattern analysis.
- Explored predictive modelling and risk scoring techniques to estimate crash risk based on historical and contextual features drawn from the dataset.

Certifications

- Machine Learning Specialization – Coursera
- Cloud Computing – NPTEL