Pratheek Nistala

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Education

Vellore Institute of Technology *Vellore, India*
B.Tech in Computer Science with Spl. in Data Science *2021-2025*

- CGPA: 8.21/10
- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Computer Networks, Software Engineering, Machine Learning, Big Data Analytics, Exploratory Data Analysis

Technical Skills

Programming Languages: Python, SQL, R, Java, C++, JavaScript

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI

Database Management: MySQL, PostgreSQL, MongoDB

Machine Learning: Scikit-learn, TensorFlow, PyTorch (Basic)

Development Tools: Git, Jupyter Notebook, Bash Scripting

Operating Systems: Linux, Windows

Projects

Tech Minds: Analyzing Mental Health Trends in Technology Professionals GitHub

Tech Stack: Python, Pandas, NumPy, Scikit-learn, Seaborn

- **Analyzed** mental health trends in 10,000+ tech professionals using survey data.
- **Performed** exploratory data analysis (EDA) with Pandas, NumPy, and Seaborn to identify key insights.
- **Built & optimized** 5 ML models (Random Forest, Logistic Regression, Decision Tree, etc.) achieving 80%+ accuracy in predicting treatment-seeking behavior.
- **Engineered** key features (age, gender, family history, workplace policies) to improve model performance.

E-Commerce Analytics: Customer Segmentation & Review Score Prediction GitHub

Tech Stack: Python, Pandas, NumPy, Scikit-learn, Seaborn, Tableau

- **Analyzed** 100,000+ orders from the Olist Brazilian E-Commerce dataset (2016–2018) to uncover key trends in customer behavior, geolocation impact, and order performance.
- **Performed** exploratory data analysis (EDA) using Pandas, NumPy, and Seaborn, identifying key insights on order cost, customer location, and review scores.
- **Segmented** customers into high-value, moderate, and low-value groups using RFM analysis and K-Means clustering, improving targeted marketing strategies.
- **Predicted** customer review scores with 80%+ accuracy using machine learning models like Random Forest and Logistic Regression based on geolocation, order cost, and delivery performance.

Extra-Curricular Activities

Senior Core Member, VIT Linux User Group *March 2022 – Present*

- Played a key role in organizing workshops and events related to Linux and open-source software.
- Led initiatives to promote Linux adoption among students and faculty within the university.

Certifications

Python for Data Science - Scaler Academy Link

Completed - March 2025

- Mastered Python fundamentals for data analysis and visualization.
- Gained hands-on experience with NumPy, Pandas, and Matplotlib.