Adithya Singupati

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Education

Indiana University Bloomington — *Master of Science in Data Science*
Graduation: May 2025
Relevant Coursework: Applied Machine Learning, Applied Algorithms, Computer Vision, Usable AI, Data Visualization, Advanced Database Technologies, Intro to Statistics

Gayatri Vidya Parishad College of Engineering — *Bachelor of Engineering in Computer Science*
Graduation: June 2023 — GPA: 3.7/4.0
Relevant Coursework: Software Engineering, Big Data Analytics, Data Mining, Artificial Intelligence

Skills

Programming Languages: Python, Java, R, C, SQL, JavaScript
Data Science and Machine Learning: Statistical Analysis, Predictive Modelling, A/B Testing
Data Engineering and Management: SQL Database Design, Data Preprocessing, Data Pipelines
Data Visualization: Tableau, Power BI, MS Excel, Data-Driven Dashboards
Tools and Frameworks: .NET, Agile Methodologies, Cloud Data Platforms, Git, JIRA
Soft Skills: Strong communication, problem-solving, teamwork in cross-functional environments

Projects

Iris Classification Project
- Built a classification model using machine learning algorithms (Logistic Regression, Decision Trees) to classify iris species.
- Achieved an accuracy of 97% on the Iris dataset, utilizing Scikit-learn for model development and cross-validation.
- Developed visualizations to interpret feature importance and classification results using Matplotlib.

Database Management System for Retail Inventory
- Developed a SQL database system to manage retail inventory, improving stock management efficiency by 40%.
- Implemented Power BI dashboards to provide real-time insights into inventory levels and sales forecasting.

Segmentation Analysis for Customer Insights
- Conducted segmentation analysis using statistical models to categorize customer data, improving targeted marketing strategies by 20%.
- Generated insights to optimize campaign effectiveness, using SQL for data management and Power BI for visualization.

Blind Assistance System
- Engineered an object detection system for visually impaired users using YOLOv4, improving recognition speed by 40%.
- Leveraged Python and computer vision to provide real-time navigation assistance.

Experience

Data Scientist Intern — *MyEdMaster LLC*, Virginia, USA   May 2024 – August 2024
- Analyzed user performance data on the SAT gaming platform, focusing on data cleaning and normalization with Pandas.
- Developed metrics to estimate users' SAT scores and validated accuracy using statistical methods.
- Utilized machine learning models (logistic regression) to predict user performance, improving the user experience.
- Created visualizations with Matplotlib and Seaborn to analyze score trends for data-driven decisions.

Intern — *TIH IoT Chanakya, IIT Bombay*, Maharashtra, India   Jan 2022 – Nov 2022
- Developed speech and mind-controlled systems for wheelchair technology using Arduino and HC05 Bluetooth modules.
- Designed a hands-free mobility solution with L293D motor drivers for translating cognitive commands into movements.
- Collaborated with a multidisciplinary team to integrate multiple control techniques, enhancing the wheelchair's adaptability.

Publications

Accessing General Health Care Facilities, IRJET, Vol. 9 Issue 10
Developed an e-health platform for real-time medical equipment availability.
https://www.irjet.net/archives/V9/i10/IRJET-V9I10150.pdf