Abhyudhay S R

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https://github.com/AbhyudhaysSRr

Education

University at Buffalo, The State University of New York **Expected Dec 2025**
Master of Science, Data Science
Relevant Courses: Probability Theory for Data Science, Numerical Mathematics for Data Scientists, Statistical Learning and Data Mining I, Database Fundamentals for Data Scientists

Visvesvaraya Technological University, India **Aug 2020 – Aug 2024**
Bachelor of Engineering, Computer Science - GPA: **8.25/10.0**

Technical Skills

Languages: Python, R, Scala, C, C++

Frameworks: PyTorch, Scikit-learn, Flask

Data Science Tools: Pandas, Seaborn, Matplotlib, Numpy, Statsmodels, Microsoft Office Suite: Word, PowerPoint, Excel

Database: MySQL, MongoDB

Version Control and Tools: Git, GitHub, Jupyter, VS Code

Work Experience

Student Intern, Bharat Electronics Limited – Bangalore, India **Aug 2023 – Sep 2023**

- Collaborated with a cross-functional team to develop a **real-time surveillance system** using the YOLO v4 model for weapon detection, enhancing public safety.
- Implemented **Pattern Matching and Image Processing techniques**, gaining hands-on experience in deep learning and object detection, which improved system efficiency.
- Gained insights into large-scale industrial operations and agile workflows, contributing to a project that significantly **reduced false positive detections** and improved response times.

Data Science Intern, CodeClause – Virtual, India **Jul 2023 – Aug 2023**

- Conducted **Unemployment Analysis** using Python, extracting insights from public datasets to identify trends and key factors influencing unemployment rates in India.
- Developed a **Sales Prediction model**, improving forecasting accuracy by **15%**, aiding in data-driven business decisions.
- Demonstrated expertise in **data preprocessing, model evaluation**, and utilizing tools such as Pandas, NumPy, and Scikit-learn for robust machine learning implementations.

Personal Projects

Hotel Review Sentiment Analysis

- Developed a **sentiment analysis system** using Python, NLTK, and Flask to evaluate hotel reviews and provide actionable insights for hotel owners.
- Employed **advanced text preprocessing** and Support Vector Machines (SVM) for effective sentiment classification, addressing challenges like **sarcasm detection**.
- Published a **research paper** detailing the system's effectiveness in interpreting customer feedback and enhancing decision-making for hotel management.

Student Housing Recommendation in Bengaluru

- Leveraged **geolocation data** to identify the best accommodation options for students in Bengaluru using K-Means clustering.
- Used **Scikit-learn, Pandas, and Matplotlib** for clustering, data analysis, and visualization.
- Provided data-driven insights to help students make informed housing decisions based on location and convenience.

Location Details Finder

- Developed this project to enhance my **API skills**, using Streamlit and Google Maps API to quickly access detailed information for nearby coordinates, such as addresses, landmarks, and amenities.
- Successfully deployed the project on **Streamlit Share**, ensuring accessibility and convenience for a broader audience.

Publication

- A. S. R, G. M. Aditya, A. K. Upadya, A. Naik and U. P, "**Customer Feedback and Sentiment Analysis for Hotel Services,**" *2024 International Conference on Distributed Computing and Optimization Techniques (ICDCOT)*, Bengaluru, India, 2024, pp. 1-6, doi: 10.1109/ICDCOT61034.2024.10516070.