Vattem Revanth Kumar

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EDUCATION

- Vellore Institute of Technology, CGPA: 8.44   Bhopal, Madhya Pradesh
  Bachelor of Technology in Computer Science and Engineering, (Specialization in AI & ML)   *August 2021 – June 2025*
- Prathibha Junior College, Percentage: 91.8%   Mahbubnagar, Telangana
- Lumbini High School, CGPA: 9.2   Mahbubnagar, Telangana

TECHNICAL SKILLS

- **Skills :** Python, Machine Learning, SQL, MS Excel

PROJECTS

Predictive Analytics for Mental Health Issues   November 2024 - January 2025

- **Tools used:** Python, Pandas, NumPy, scikit-learn, Matplotlib, Seaborn.
- Developed predictive models using Random Forest, SVM, and Logistic Regression to analyze mental health risk factors, improving early detection and intervention strategies.
- Applied feature engineering and model evaluation techniques to enhance prediction accuracy, utilizing precision, ROC-AUC, and feature importance analysis for better interpretability and visualized key insights through ROC curves and statistical metrics, enabling data-driven decision-making for mental health analytics.

Road Lane Line Detection   June 2024 – July 2024

- **Tools used:** Python, OpenCV, MoviePy, Numpy, Hough Transform, Google Colab.
- Designed a lane detection algorithm using OpenCV and MoviePy, achieving 90% real-time accuracy and 30% reduction in false positives.
- Applied Hough Transform and smoothing techniques for precise lane representation with 100% visualization accuracy.

INTERNSHIPS

CodSoft   August 2024 – September 2024

Data Science Intern   *Remote*

- Developed a sales forecasting model (85% accuracy) to analyze sales trends, optimize advertising strategies, and enhance demand prediction using historical data insights
- Bulit a regression model (78% accuracy) for movie rating prediction, leveraging feature engineering on genre, director, and actors to identify key factors influencing audience preferences.
- Designed an Iris flower classification model (95% accuracy) using statistical analysis and predictive modeling, demonstrating expertise in pattern recognition and feature selection.

Next24tech Technology & Services   June 2024 – August 2024

AIML Development Intern   *Remote*

- **Tools used:** OpenCV, TensorFlow, Python, Keras.
- Developed CNNs for early plant disease detection, achieving 92% accuracy.
- Analyzed climate data using Random Forest and Gradient Boosting, predicting heat waves with 90% accuracy.

EXPERIENCE

Bookstore Management

Retail Store Manager   *Mahbubnagar, Telangana*

- **Business Operations & Data-Driven Decision Making:** Managed day-to-day operations of a family-owned bookstore, overseeing sales transactions, customer interactions, order management, and inventory control, ensuring optimal stock levels and high customer satisfaction
- **Financial Analysis & Sales Forecasting:** Conducted profit and loss analysis, maintained financial records, and utilized data analytics to identify sales trends, optimize inventory turnover, and make strategic purchasing decisions to improve profitability.
- **Customer Behavior Insights & Market Analysis:** Analyzed customer purchase patterns to adjust product offerings and pricing strategies, enhancing sales and customer retention through data-driven decision-making.

ACHIEVEMENTS

- Recognised as a National Semi-Finalist in Tata Imagination Challenge 2024, organised by the Tata group.
- GVDSP Scholar – Awarded a 25% Scholarship for outstanding performance in board examinations.

OTHER INFORMATION

- **Languages:** English, Hindi, Telugu
- **Hobbies:** Listening Music, Playing Cricket, Watching Movies.