Yeswanth Varma Gottumukkala

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Experience

AI|ML|DS Intern   **Jul 2023 – Sep 2023**
Henotic Technology Pvt. Ltd.   Hyderabad
- Improved predictive model performance through effective feature selection, achieving a 10% increase in accuracy.
- Analyzed NASA's Near-Earth Object dataset to develop predictive models using size, speed, and trajectory, enhancing threat identification by 30% through in-depth analysis of 25+ historical events.
- Applied KNN and Random Forest models to improve predictive accuracy and model performance.

AI-ML Intern   **Dec 2024 – Mar 2025**
Blackbuck Engineers Pvt. Ltd. (Associated with APSCHE)   Remote
- Completed a 240-hour AI-ML internship with Blackbuck Engineers, gaining hands-on experience in machine learning techniques and applications.
- Worked thoroughly on data preprocessing, feature engineering, and model evaluation to improve predictive accuracy and overall model performance.

Projects

Diabetes Risk Prediction Project
- Performed EDA on a diabetes dataset to uncover trends in features like glucose, BMI, and insulin.
- Cleaned and prepared data by handling missing values, scaling, and encoding categorical features.
- Trained and fine-tuned an XGBoost model with 74.5% accuracy using cross-validation and hyperparameter tuning.
- Built and deployed a REST API using FastAPI for real-time predictions, enabling seamless integration into web or mobile applications.

AI-Based Handwritten Answer Evaluation System
- Developed an end-to-end pipeline to automate the evaluation of handwritten student answers.
- Boosted evaluation reliability by 20% through a custom-trained XLNet-based similarity model, leveraging semantic context across question, student answer, and reference.
- Designed and deployed a full-stack FastAPI web app with image upload interface, scoring logic, and real-time feedback, hosted on Hugging Face Spaces using Docker.
- Handled complete deployment lifecycle, including model hosting, API development, Dockerization, and static frontend integration for seamless user experience.

Education

BTech in Artificial Intelligence & Machine Learning (AIML)   **Nov 2021 – May 2025**
SRKR ENGINEERING COLLEGE(A),Bhimavaram,W.G.Dist.,A.P   CGPA: 7.0/10

Intermediate Education (BIEAP)   **Jun 2019 – Mar 2021**
Sri Chaitanya Junior College, Palakollu, W.G. Dist., A.P   Grade: 80.4%

Secondary Education (Class X)   **Jun 2019 – Apr 2019**
Sri Chaitanya School, Narsaput, W.G. Dist., A.P   CGPA: 9.3/10

Technical Skills

Programming Language: Python
Machine Learning: Regression & Classification Algorithms, Model Building & Optimization, Working Knowledge of NLP
Data Processing & ETL: , Data Extraction, Transformation & Loading
API Development & Deployment: FastAPI (ML Inference APIs), Docker (Containerization & Deployment)
Soft Skills: Communication, Analytical Thinking, Problem-Solving, Accountability, Continuous Learning

Positions of Responsibility

- **IEEE Xtreme 18.0 Student Contributor, SRKR IEEE Student Branch** - Helped the Student Ambassador in organizing and managing IEEE Xtreme 18.0.

Certifications

- Earned certification for an 8-week ChatGPT/Generative AI internship, showcasing advanced skills in AI technologies.