

# Yeswanth Varma Gottumukkala

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## Experience

<b>AI ML DS Intern</b> <b>Henotic Technology Pvt. Ltd.</b>	<b>Jul 2023 – Sep 2023</b> Hyderabad
<ul style="list-style-type: none"><li>• Improved predictive model performance through effective feature selection, achieving a 10% increase in accuracy.</li><li>• 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.</li><li>• Applied KNN and Random Forest models to improve predictive accuracy and model performance.</li></ul>	
<b>AI-ML Intern</b> <b>Blackbuck Engineers Pvt. Ltd. (Associated with APSCHE)</b>	<b>Dec 2024 – Mar 2025</b> Remote
<ul style="list-style-type: none"><li>• Completed a 240-hour AI-ML internship with Blackbuck Engineers, gaining hands-on experience in machine learning techniques and applications.</li><li>• Worked thoroughly on data preprocessing, feature engineering, and model evaluation to improve predictive accuracy and overall model performance.</li></ul>	

## Projects

<b>Stock Market Prediction Project</b>
<ul style="list-style-type: none"><li>• Developed a predictive model that increased stock movement accuracy by 22% by analyzing over 2,000 Reddit posts.</li><li>• Enhanced prediction accuracy by 18% through feature engineering of sentiment and engagement.</li><li>• Implemented a Random Forest model for classification, optimizing data preprocessing and feature selection for improved reliability.</li></ul>
<b>Diabetes Risk Prediction Project</b>
<ul style="list-style-type: none"><li>• Conducted extensive exploratory data analysis (EDA) on a diabetes dataset, identifying patterns and relationships in features like glucose, BMI, and insulin levels to improve data-driven insights.</li><li>• Preprocessed and verified data by handling missing values, scaling features, and encoding categorical variables, ensuring high-quality data for modeling.</li><li>• Developed and optimized a predictive model using XGBoost, achieving 74.5% accuracy and fine-tuning it for better performance based on cross-validation.</li><li>• Implemented the model as a REST API using FastAPI, enabling real-time predictions and integrating SHAP visualizations to ensure transparency and interpretability of the model.</li></ul>
<b>Formula 1 Data Analysis &amp; Lap Time Prediction</b>
<ul style="list-style-type: none"><li>• Collected and analyzed Formula 1 race data, including lap times, weather, track temperatures, and tyre compounds to extract key insights.</li><li>• Built a machine learning model using regression techniques to predict lap times based on tyre wear, track evolution, and weather conditions.</li><li>• Developed visualizations to compare driver and team performances for better race strategies.</li></ul>

## Education

<b>BTech in Artificial Intelligence &amp; Machine Learning (AIML)</b> SRKR ENGINEERING COLLEGE(A),Bhimavaram,W.G.Dist.,A.P	<b>Nov 2021 – May 2025</b> CGPA: 7.0/10
<b>Intermediate Education (BIEAP)</b> Sri Chaitanya Junior College, Palakollu, W.G. Dist., A.P	<b>Jun 2019 – Mar 2021</b> Grade: 80.4%

## Technical Skills

<b>Programming Language:</b> Python.
<b>Machine Learning:</b> Algorithms   Scikit-learn   TensorFlow   PyTorch   Matplotlib   Seaborn   Computer Vision.
<b>Database Management &amp; ETL:</b> SQL   DBMS Concepts   Data Extraction   Data Transformation   Data Loading.
<b>APIs &amp; Deployment:</b> FastAPI   Docker.
<b>Soft Skills:</b> Communication Skills   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.
- **Team Lead** – Led Formula 1 Data Analysis & Lap Time Prediction project.

## Certifications

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