Ravi kumar Chavva

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Education

Sri Venkateswara College of Engineering, Tirupati, India
Bachelor of Technology (B. Tech) in Computer Science and Engineering | Major: Data Science
| 2021 – Present | Current CGPA: 8.55/10

Sri Chaitanya Junior College, Andhra Pradesh, India | 2019 – 2021 | Completed with 94.75%

Target English Medium School, Andhra Pradesh, India | 2010 – 2019 | Completed with 10 GPA

Projects

IPL Score Prediction (GitHub 2022)

- Developed a machine learning model that predicts IPL scores with an accuracy of 92%, improving sports analytics performance by 20% compared to baseline models.
- Utilized Python and Scikit-learn to preprocess over 100,000 match data points, performing feature engineering and selecting the best-performing model using PyCaret.
- Implemented a Flask web app to allow users to input match conditions and receive predictions, leading to consistent user engagement with the deployed app.
- Dockerized the solution and deployed it on Google Kubernetes Engine (GKE), ensuring stable performance and scalability for handling hundreds of predictions.

Car Price Prediction (GitHub 2023)

- Created a regression model using Python and Scikit-learn to predict car prices with 89% accuracy, improving prediction performance by 15% compared to baseline models.
- Applied data cleaning techniques to process 250+ car records, reducing data errors and improving model accuracy.
- Integrated the model with a web interface using FastAPI, allowing for real-time price predictions and facilitating user testing of the system.

Customer Churn Prediction (GitHub 2023)

- Built a classification model with 86% recall to predict customer churn, improving model performance by 10% compared to baseline models.
- Employed Boosting algorithms and Scikit-learn to fine-tune the model, achieving a 7% improvement in accuracy over initial iterations.
- Deployed the model via a web application using FastAPI, enabling real-time churn predictions with a response time of <2 seconds.
- Analyzed over 8,000+ customer records, identifying key churn factors to inform targeted retention strategies.

Skills & abilities

- **Programming Languages:** Python, C, TypeScript
- **Data Analysis:** SQL, Polars, Power BI
- **Machine Learning:** TensorFlow, Scikit-learn, Pycaret
- **Cloud Computing:** Git, Docker, Kubernetes
- **Web Development:** Next.js, MongoDB, Prisma
- **Management:** Discord

Certifications

Machine Learning for Engineering and Science Applications – NPTEL

Experience

Data Science / Machine Learning - ExcelR | intern June 2024 – July 2024

- Gained hands-on experience with the **Data Science Process**, from data collection and cleaning to model deployment
- Developed and deployed multiple machine learning models, optimizing workflows and reducing data processing time by **15%**.