Ravi kumar Chavva

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Education

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

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 with 92% accuracy, improving sports analytics by 20% over baseline models.
- Preprocessed over 100,000 match data points using Python and Scikit-learn, and optimized model performance with **PyCaret**.
- Implemented a Flask web app for user input and predictions, driving consistent engagement.
- Deployed the solution on **Google Kubernetes Engine (GKE)**, ensuring performance, scalability, and cost efficiency.

Car Price Prediction (GitHub 2023)

- Collaborated with a team of 3 members to create a regression model in Python, predicting car prices with 89% accuracy, 15% better than baseline models.
- Worked closely with team members on data cleaning and processing for over 250 car records, reducing errors and improving model accuracy.
- Integrated the model with a FastAPI web interface for real-time predictions and user testing.

Customer Churn Prediction (GitHub 2023)

- Built a classification model with 86% recall to predict customer churn, **enhancing** model performance by 10% over 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 as a web application using FastAPI, enabling real-time churn predictions with a response time of under 3 seconds.
- Analyzed over 8,000 customer records, identifying key churn factors to inform retention strategies.

Skills

- **Programming Languages:** Python, C, TypeScript
- **Data Analysis:** SQL, Polars, Power BI
- **Machine Learning:** TensorFlow, Scikit-learn, Pycaret
- **Cloud Computing:** AWS (SageMaker, S3), Google Cloud (Cloud Run, Artifact Registry)
- **Devops:** Git, Docker, Kubernetes, Github Actions
- **Web Development:** Next.js, MongoDB, Prisma

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%**.