Ravi kumar Chavva

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PROFESSIONAL EXPERIENCE

Data Analyst – FLR Spectron **Jan 2025 – Present**

- Currently working on the development of a forecasting pipeline to predict fruit quality, using time series analysis and supervised ML models to support supply chain optimization.
- Building an automated document data extraction pipeline using Generative AI, aiming to process unstructured PDFs and text documents into structured insights. .

AI Intern - Aavaaz **Dec 2024 – Jan 2025**

- Assisted in the NLP research project and gained hands-on experience with PyTorch for sentiment analysis and text classification tasks.
- Participated in collaborative learning sessions to build expertise in speech recognition technologies and core applied AI concepts to solve real-world problems.

PROJECTS

T20 Cricket Win Prediction (project link) ***(GitHub 2024)***

- Designed to provide broadcasters, analysts, and sports teams with real-time win probability insights, enhancing strategic decision-making and fan engagement in cricket matches.
- Built a robust data pipeline with Apache Airflow, Spark, and HDFS, processing 570k+ rows of historical cricket data from cricsheet.org and scraped additional statistics from espncricinfo.com.
- Engineered a multi-model architecture combining LSTMs, CNNs, and DNNs to predict match outcomes, trained using PyTorch and optimized with Weights & Biases.
- Simulated real-time match scenarios, achieving 85% accuracy in predicting match outcomes during critical final overs.

Customer Churn Prediction (project link) **(GitHub 2024)**

- Developed a customer churn prediction model to identify at-risk customers, enhancing retention strategies and revenue stability.
- Analyzed a dataset of 7,000+ customer records from ibm-telecom-churn to uncover key churn drivers and actionable insights.
- Achieved an F1 score of 86% after applying SMOTE and optimizing with CatBoost/XGBoost, enabling accurate identification of high-risk churn customers while keeping false positives low—improving targeting for retention campaigns while minimizing false alarms.
- Deployed the model as a serverless API on GCP using FastAPI and Docker, achieving real-time predictions with a 130ms response time under simulated load.
- Identified **charges** and **internet service quality** as key churn drivers, recommending personalized plans and targeted improvements in internet service to reduce churn rates.

SKILLS

- Programming Languages
- Data Visualization and Manipulation
- Statistical & Deep Learning Frameworks
- Deployment, DevOps & MLOps
- Familiar with
- Python, SQL
- Matplotlib, Seaborn, Numpy, Pandas, PySpark, Polars
- Scikit-Learn, PyTorch, TensorFlow, ONNX
- FastAPI, Next.js, Docker, Git, Weights and Biases
- Apache airflow, HDFS, GCP, GitHub Actions

EDUCATION

Bachelor of Technology (B. Tech) in Computer Science and Engineering (Major Data Science)
Sri Venkateswara College of Engineering, Tirupati, India | CGPA: 8.4 **NOV 2021 – Present**

CERTIFICATIONS

- Machine Learning Specialization – Andrew Ng – Coursera **AUG-2022**
- Machine Learning for Engineering and Science Applications (silver medal) – NPTEL **MAR-2024**
- Introduction to large language models – NPTEL **June-2025**

SUMMARY

Final-year student and full-time Data Analyst with hands-on experience in developing AI-driven solutions, ML pipelines, and predictive modeling. Proficient in PyTorch, FastAPI, and Docker for real-time deployments. Skilled in Computer Vision, model optimization, and delivering data insights to drive informed decision-making and business impact.