

Ravi kumar Chavva

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PROFESSIONAL EXPERIENCE

AI Intern - Aavaaz

Dec 2024 – present

- Assisting in NLP research projects, gained hands-on experience with PyTorch for sentiment analysis and text classification tasks.
- Supported the development of machine learning pipelines, focusing on data preprocessing, model evaluation, and experimentation under team guidance.
- Participated in collaborative learning sessions to build expertise in speech recognition technologies and 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 espn.cricinfo.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.
- Improved model accuracy using SMOTE for class imbalance and optimized performance with ensemble techniques (CatBoost, XGBoost), achieving an F1 score of 86%.
- 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

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

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| • Machine Learning Specialization – Andrew Ng – Coursera | AUG-2022 |
| • Machine Learning for Engineering and Science Applications (silver medal) – NPTEL | MAR-2024 |

EXTRACURRICULAR ENGAGEMENTS

Data Nexus: Founded and led a thriving data science community at college, engaging over 50 students through hands-on workshops, collaborative projects, and resource-sharing initiatives to accelerate learning and innovation in data science.

SUMMARY

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