

Ravi Chandra Sekhar

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SUMMARY

Machine Learning Engineer with a Master's in Information Technology. Skilled in building and training models using **PyTorch, Scikit-Learn, and NLP (DistilBERT)**. Proven in end-to-end project deployment, from **containerizing with Docker** to serving live models on **Hugging Face Spaces**.

EDUCATION

Master of Science in Information Technology, Concordia University (GPA: 3.75)

May '23 — Aug '24
St. Paul, MN

Bachelors of Tech. in Computer Science, K L University (GPA: 3.58)

Jun '18 — Apr '22

PROJECTS

Fact-Check News Detector [Link](#)

- **Fine-Tuned Distil BERT** model to classify news with over 95% accuracy (F1-score) on a dataset of 44k+ articles.
- Developed a hybrid verification pipeline by integrating the **Google Fact Check API** to validate recent news, **reducing false positives** and improving model predictions.
- Managed the full model lifecycle, from **data preprocessing** to **containerization** with Docker and deployment on **Hugging Face Spaces** for Real-time model serving

Stock Anomaly Detector [Link](#)

- Built an anomaly detection system combining a **PyTorch LSTM Autoencoder** and **Scikit-learn** Isolation Forest to accurately identify both subtle patterns and sharp outliers in live financial data.
- Implemented a full **MLOps** pipeline on **Hugging Face**, enabling **model versioning** and seamless updates for the live application.

Loan Approval Predictor Using XGBoost and SHAP [Link](#)

- Developed an interpretable ML model using **XGBoost** and **SHAP** to predict loan approvals, achieving **75.6% test accuracy** while ensuring decision transparency.
- Deployed a **containerized (Docker) Streamlit** application on **HuggingFace Spaces** with an interactive UI for real-time model predictions.

Customer churn Prediction [Link](#)

- Designed a prediction system to identify at-risk customers for a telecom dataset, building **XGBoost, Random Forest, and Logistic Regression** models that achieved **~81% accuracy**.
- Transformed model findings into business insights by using **EDA** and **feature engineering** to identify key churn drivers, such as contract type and tenure, providing actionable recommendations for retention strategies.

EXPERIENCE

AWS Devops Intern

Smartgig

Mar '22 — Aug '22
Hyderabad, India

- Managed and monitored AWS cloud resources (EC2, S3, CloudWatch), ensuring data availability and integrity for analytics and application development teams.
- Supported the deployment of data-driven applications by containerizing services with Docker and assisting with deployments to Kubernetes test environments
- Maintained CI/CD pipelines using Jenkins to automate the build and testing process for software projects, helping to troubleshoot and resolve deployment issues.

CERTIFICATIONS

Microsoft Azure Fundamentals

Oct '22

SKILLS

Programming Python, SQL

ML & Data Science NumPy, pandas, EDA, Scikit-Learn, Regression, PyTorch, NLP

Visualization Matplotlib, Seaborn, Tableau

Cloud & DevOps AWS SageMaker, AWS, Azure, Git, Docker, Github, SonarQube, Jenkins, Kubernetes