

Ravi Chandra Sekhar

+17638435914 ◇ ravichandu.musuluri@gmail.com ◇ Minneapolis, Minnesota ◇ [LinkedIn](#) ◇ [GitHub](#)

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