Jagadish Reddy Ramana

Jagadishreddy.in   Machine Learning Engineer   8247701537

Summary

Machine learning Engineer with 6 years of experience in building data intensive applications overcoming complex architectural and scalability issues. Proficient in predictive modelling, data processing, data mining and deployment of diverse services to translate business to substantial deliverables.

Professional Experience

IBS Software | Expedia   Sept 2022-Present
Machine Learning Engineer

- Led engineering efforts for deploying and maintaining ML model pipelines using GitHub Actions, Jenkins, and other deployment tools.
- Utilized **AWS** services including S3, EMR clusters, EC2, and Lambda for storing models and processing data and deployed the **GBDT** model end point on AWS with a feedback loop and monitoring framework.
- Developed and maintained end-to-end ML models and MLOps pipelines to map room types for Expedia, focusing on **competitor analysis**.
- Worked on projects improving **search relevance and ranking** on Expedia's platform, using various ML models to enhance user experience.
- Developed NLP models (**VADER** and **BERT**) to analyze customer feedback and reviews, extracting insights to improve product offerings.
- Implemented generative AI models using Amazon Bedrock (**CLAUDE** and **TITAN**) to create personalized content recommendations for users based on their search history and preferences.

Infosys   June 2020 – Aug 2022
Technology Analyst

- Developed **Credit risk model** on mortgage loans to estimate risk weighted assets by modelling probability of default for Bank of America.
- Cleaned and structured raw data stored in **HIVE** for downstream processing.
- Built and deployed **Logistic regression** model to estimate probability of default generating new business worth **$6m.**
- Designed and built OCR engine using tesseract and CNN-LSTM model to extract content from transactional images for audit purpose saving 80-man **hrs./day.**

Senior Software Engineer   Jul 2018– June 2020

- Lead automation of ticketing pipeline to route tickets to different teams based on ticket description.
- Collaborated with different teams for data collection, performed feature engineering and built **Random Forest** classifier saving **40-man hrs./day.**
- Collaborated with **BHP** to develop **LSTM** Model Network predicting maintenance needs for heavy machinery, reducing downtime and saving costs.
- Developed modules for data quality checks before loading data into Delta tables.
- Handled incremental data loading from Delta tables to SQL Data Warehouse.

Skills

Programming Languages & Frameworks:

- Python, PySpark, React

Big Data & Streaming:

- Apache Spark, Spark Streaming, Apache Kafka, Hive, Sqoop, SQL

Machine Learning & AI:

- TensorFlow, Scikit-learn, Spark MLlib, PyTorch, Ray Tune, Kubeflow, MLflow, Airbyte, Weights & Biases, BentoML, Qwak
- Specializations: Machine Learning, Deep Learning, Recommender Systems, NLP, Computer Vision

Cloud & DevOps:

- AWS (EC2, ECR, ECS, SageMaker, Fargate)
- GitHub Actions, Apache Airflow, neptune.ai, Grafana

Data Science & Visualization:

- pandas, numpy, plotly

Statistical Analysis:

- Statistics

Education

Mohan Babu University 2014 – 2018
Bachelor of Technology (Electrical and Communication Engineering)