Dinesh Ladi

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Data Scientist with 5.5 years experience in data analyses, machine learning, building data pipelines and deploying models as a service. Spoke at DataBricks and Seoul AI Summits. Currently looking for a data science role where I can help companies/people leverage data to make better decisions using data analyses and machine learning. .

PROFESSIONAL EXPERIENCE

Walmart Global Tech   **Bangalore, India**
Data Scientist, ML Engineer   *May 2020–Present*

Project: Curation of associate ideas using NLP
- Built a system to filter and group high quality ideas using topic modeling, semantic similarity and classification models on s-bert embeddings of user ideas
- Deployed classification model as a REST API using FastAPI, Docker and managed Kubernetes
- Built REST API service monitoring system using Prometheus and Grafana. Deployed alerts to track the health of the service using a managed metrics service

Project: Continuous Model Monitoring Framework
- Wrote frameworks to generate model diagnostics reports and dashboards to identify anomalous/unexpected performance of models for a time series forecasting framework
- Designed triggers to create a JIRA ticket whenever the performance of a model is subpar and not as expected

Project: Improvement of Intent Classification Algorithms for a Chatbot
- Built classifiers by fine tuning DistilBERT embeddings for identifying intents in chatbot workflows which in turn improving associate experiences while using chatbot
- Improved latency/memory footprint of the model by quantisation and model pruning techniques

Project: Optimisation of bags usage at Walmart stores
- Used bin packing algorithms to estimate optimal amount of bags to be used at Walmart store checkout counters
- The solution helped in identifying the stores with high over-usage of bags and keep on check on the same

Actify Data Labs   **Bangalore, India**
Data Scientist   *Aug 2018–May 2020*

Project: Crop Classification using Satellite Imagery
- Built a data pipeline to generate spectral indices, create features, train models and score on unseen satellite images
- Used custom metrics (combination of precision and recall) to estimate optimal threshold
- Reduced the huge number of man-hours taken to identify and geospatial labeling of crops across various regions in the country. Manual geo labelling of crops for each district takes around 4-5 man hours. Reduced it down to less than 1 hour without compromising precision and recall.

Project: Interactive Decision Tree

- Developed an interactive drag and drop decision tree tool for segmentation of data for business users
  The features include delete, add, cut and copy a subtree from the tree and export the rules to segment
  the data
- Conceptualized, designed and developed the complete product module including algorithm design, UI
  design and scalability for larger data
- The product is sold to one of the cab sharing unicorn in the country

Opera Solutions   **Noida, India**
Analytics Specialist   *Jan 2018–August 2018*

Project: Revenue management of health care providers

- Developed an ensemble of Random Forest and Logistic Regression to identify potential revenue items that are
  missing from a given bill and provide recommendations to the front line accounts
- More than 85 % of the recommendations were correct in identifying missed bill items. This led to significant
  revenue enhancement for the health care providers

Cognizant Technology Solutions   **Chennai, India**
Analyst   *July 2016–Jan 2018*

Project: Ad-Viewership Analytics

- Built data pipelines to curate, consolidate and process ad-viewership data across multiple viewing channels
- Tools used: Hive SQL, Hadoop, Unix Scripting

TECHNICAL SKILLS/COURSES

- **Languages:** python, R, pyspark, SQL, unix
- **Tools**: Docker, Prometheus, Grafana, R-Shiny
- **Libraries**: pandas, scikit-learn, fastapi, streamlit
- **Courses**: Statistical Learning (Stanford), Deep Learning Specialization (Coursera)

EDUCATION

IIT Bombay   **Mumbai, India**
Bachelors of Technology & Masters of Technology in Energy Science and Engineering   *2011-2016*
(GPA: 8/10)

CONFERENCES

- Conversational AI using transformer models - **Seoul AI Summit 2020**
- Conversational AI with transformer models - **DataBricks Data + AI Summit North America Chapter 2021**