Kumar Mangalam

Developer and Data Analyst with 2+ years of experience in data analytics, understanding client requirements and utilizing data science skills. Skilled in building end to end Machine learning pipelines and deploying models.

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EXPERIENCE

DataVal Analytics, Bengaluru — *Developer and ML Engineer*

JAN 2018 - PRESENT

Human Resource Analytics Product
- Created attrition prediction pipeline in python using Pandas, Numpy, Seaborn, scikit-learn and XGBoost modules.
- Piloted the project using pytest.
- Built a sentiment analysis module from the text using Vader Sentiment.
- Built a feature extraction tool for resumes using Spacy, pdfminer.
- Developed multiple dashboards using Kibana.

Vessel Trajectory Analysis
- Worked with a defence/space client to predict the vessel movement.
- Created trajectory clustering model using DBSCAN, OPTICS.
- Developed vessel prediction model using Kalman Filter, Seq2Seq (LSTM).
- Preprocessed data using Apache Spark and visualised geo coordinates in qGIS.

Rule Based QA Chatbot
- Designed internal representation of questions (unstructured query to a structured query) for the solver module.
- Built a question module which fetches relevant information from data stored in MongoDB, Orient DB, MySQL databases using Java.
- Developed interface for knowledge management interface using D3.js, Bootstrap, jQuery.
- Developed multiple JAVA APIs for extracting information from databases based on query.

Deployment
- Deployed ML models in production for handling concurrent

SKILLS

Java, SQL, Python, Apache Spark

Bootstrap, jQuery, d3.js, HTML5, CSS3, Javascript, Kibana

Pytest

SQL, MongoDB (CRUD), OrientDB (CRUD), Elasticsearch (CRUD)

Nginx, Docker, Apache airflow, gUnicorn

Linear and Logistic regression, Classification and Regression trees, K-Means, DBSCAN, OPTICS

Pandas, NumPy, Matplotlib, Seaborn, DASK, Scikit-Learn, Vader Sentiment, Keras, OpenCV (Learning), Tensorflow (Learning), Spacy (Learning)

RNN, CNN, LSTM, Attention, Transformer Model, Text Embeddings (Bert)

Agile, Linux, Git

Bilingual Communicator (English,Hindi)

requests using technologies like Docker, Nginx, and gUnicorn.

- Created a cron job in the production environment for the ML model to interact with MySQL DB using Apache airflow.
- Well-versed with the CI/CD pipeline for product development environment with Gitlab.

NLP

- Created a POC for Machine Translation in regional language using Seq2Seq Keras model with LSTM NN and Transformer model.
- Created a POC for extractive text summarization using TextRank Approach.

EDUCATION

Calcutta Institute of Engineering and Management,
Kolkata — *B.Tech. in Electrical Engineering*

2013 - 2017

CGPA – 7.96/10.

Pitts Modern School, Bokaro Thermal
12th Board
Percentage – 86.40%
10th Board
CGPA – 7.2/10.

ACHIEVEMENTS

Semi-finalist in the TechGig Code Gladiators Hackathon.

Among Top-5 teams in IndiaMart ML Hackathon organised by Hackerearth.

Got Gold level batch in Hackerrank Problem Solving.

Got Silver level batch in Hackerrank 10 days of JS.

Got Silver level batch in Hackerrank SQL.

Got Silver level batch in Hackerrank Python.