

ASSOCIATE DEVELOPER . COMPETITIVE DATA SCIENTIST

B410, Mahaveer Regal, Seetharampalya, Bengaluru, Karnataka, 560048, India

🛮 (+91) 8521812736 | 🗷 catchdeepak.nitp@gmail.com | 🏕 www.jigsawcoder.ml | 🖸 deepakgupta1 | 🛅 deepakgupta94

Experience

SAP Labs Bengaluru, India

ASSOCIATE DEVELOPER

August 2017 - PRESENT

· Single Metric Forecasting.

- Forecasting future values of performance metrics of managed systems, given past values, for early identification of any anomalous behaviour.
- Made time series models: Exponential Smoothing, ARIMA and regression model: LightGBM for forecasting.
- For regression models, made lag features, rolling time statistics features.

Alert Correlation.

- Finding correlated alerts at different levels of system hierarchy to reduce number of duplicate alerts for system administrators.
- Using Market Basket Analysis concept based statistical model for Association Rules mining of correlated alerts.

Coriolis Technologies Pune, India

Summer Intern May 2016 - July 2016

· Automatic Number Plate Recognition.

- A machine learning system that gives license number from image of a car having number plate.
- Image manipulations are done on the input image to extract out the number plate region and then numbers are extracted with further processing and OCR.
- Used Python, OpenCV2, pytesseract and SVM classification.

Indian Institute of Technology Bombay

Mumbai, India

Summer Intern May 2015 - July 2015

· Blended MOOCs for IIT Bombay.

- A platform for IIT Bombay to offer MOOCs to students for learning and teachers to integrate with classroom study.
- I made the Course Management module which provides features for registration for a course, viewing course details, change college details for a course and unregistering for a course.
- Used Python, Django and MySQL.

Projects

Mozilla Automatic Bug Triaging

TEXT CLASSIFICATION, DEEP LEARNING

Oct. 2018

- Predicted the software component to which a bug should belong to, given the past data about bugs and the components to which they were
 associated.
- · Did multi-class text classification using pre-trained embeddings (fasttext, glove etc.) and different architectures of Deep Learning.

Scoring Airbnb Reviews

NLP, Machine Learning

July 2018

- Score prediction in the categories of cleanliness, accuracy, check-in, communication, location, value (out of 10) and overall (out of 100) based on the text reviews left by customers on Airbnb.
- Trained LightGBM regressors over several engineered features including tfidf and word2vec features.

Product Recommendation for Big Bazaar customers.

RECOMMENDATION ENGINE, COLLABORATIVE FILTERING.

Oct. 2017

- Recommend 20 products that Big Bazaar customers are most probable to buy in next one month, provided their shopping history.
- Explored both heuristics based rules approach and Collaborative Filtering algorithm for product recommendation.

Customer Segmentation based on shopping patterns.

HIERARCHICAL CLUSTERING, K-MEANS

Nov. 2017

- · Cluster customers based on their shopping patterns and other data given about the customers and shopping stores.
- Explored K-Means and Hierarchical Clustering algorithm to solve this problem.

Food Image Classification.

IMAGE CLASSIFICATION, DEEP LEARNING

Dec. 2018

- · Classify Japanese food images into 43 different categories, given more than 0.7 million labeled images.
- Fine tuned Imagenet pre-trained models like ResNet50, Densenet201 on the given data set.
- Ensembled all the different architectures to achieve better predictions.

Technical Skills

Programming Python

Tools MySQL, OpenCV

Major Packages Pandas, Numpy, Sklearn, XGBoost

Data Science Regression, Clustering, Time Series, Image Processing

Education

• CGPA: 8.8/10

National Institute of Technology Patna

Patna, Bihar

August 2013 - May 2017

B.Tech. IN Computer Science and Engineering

Presentation

SAP Conference on Machine Learning

Berlin, Germany

PRESENTER FOR SYSTEM OUTAGE PREDICTION PROJECT

Feb. 2018

• Presented as well conducted a workshop on a data science project done in my team on System Outage Prediction.

Honors & Awards

11th Place, International Data Analysis Olympiad out of 900+ Teams.	Moscow, Russia
Winner, DataWarriors Challenge for SAP for Zomato, Delhivery, Portea.	SAP
Winner, PredictTheKick Hackathon, predicting final match of FIFA18.	SAP
22nd Place , Analytics Vidhya, a data scientist contest platform, among more than 1,32,000 members.	Online
11th Place, IndiaHacks Machine Learning out of more than 7000+ participants.	Online
14th Place , Click Prediction Hackathon out of more than 2900+ participants.	Online
10th Place , Recommendation Challenge out of more than 490+ participants.	Online
	Winner, DataWarriors Challenge for SAP for Zomato, Delhivery, Portea. Winner, PredictTheKick Hackathon, predicting final match of FIFA18. 22nd Place, Analytics Vidhya, a data scientist contest platform, among more than 1,32,000 members. 11th Place, IndiaHacks Machine Learning out of more than 7000+ participants. 14th Place, Click Prediction Hackathon out of more than 2900+ participants.