Vipul Rai

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Summary

Analytical and process-oriented engineer with a bachelor in computer science degree, in addition to 7+ years of professional experience handling multiple projects and teams. Python expert, passionate about using analytics to drive strategic business decisions. Excellent interpersonal skills, able to collaborate effectively with technical and nontechnical people.

Blog

https://vipulrai.me

Skills

- DL Frameworks Tensorflow, Pytorch, fast.ai
- Big Data Spark, Kafka ,Hive
- DL Models Transformers, BERT, GAN, DETR
- Cloud AWS Lambda, S3, EC2, API Gateway, SageMaker Decision Trees Random Forest
- Dev Tools Git, Github, Jupyter, VSCode, JIRA
- · Linear Regression, KNN, K-means Clustering
- Python
- DL Layers CNN, RNN, LSTM
- ML libraries Pandas, Numpy, scikit-learn, OpenCv
- · Logistic Regression, SVM, XGBOOST, KNN

Experience

Senior Data Scientist

SmartNomad • Bengaluru, Karnataka

09/2017 - 05/2020

Designed and built algorithm which calculates the scores for each point of interest

Developed a microservies architecture and built the entire pipeline beginning from data aggregation to the final itinerary generation

Used Python and Spark to scrape, clean, and analyze point of interest data

Developed video creator app using opency-python and moviepy

Used multiple Google APIs(distance matrix, maps, places) and integrated partner APIs

Managed a team of 7-9 people and undertook project management

Collaborated with UI/UX designers, app developers and business to create an optimal customer experience

Onboarded flight, hotel and booking partners to create inventory and enable booking experiences

Consultant

Affine Analytics 10/2015 - 05/2017

Joined as Senior Business Analyst, got promoted within 9 months to Consultant

Daily routine included - Code Review, managing scrum updates, fixing pending issues,

pianning for the day/s, updating dusiness requirements, scheduling new tasks, reporting the progress to higher management/stakeholders

Selected Projects:

- Gaming Analytics fortune 100 client, biggest game publisher in the world
 - Developed the end to end pipeline for data orchestration to consumption using PySpark and Kafka
 - Developed and deployed a fraud detection model to help company ban players using cheats and violating game rules using RandomForestClassifier
 - Wrote an automated Pyspark program which calculated user stats on daily, weekly and monthly level
- Retail Store Revenue Optimization fortune 100 american retail giant
 - The pricing team was tasked with the challenge to identify optimal promo/clearance sale prices which would result in maximum sales.
 - Identified multiple factors which impact unit sales during promotions such as Price Elasticity, Seasonality, % sales in each Day-of-the-Week, effect of circulars/promotions, breakage due to unavailability of different sized SKUs, impact of public holidays, etc.
 - Developed the aglorithm using Spark Scala
- Travel Portal Optimization To reduce the number of unqualified searches on portal's meta channel
 - Gave an optimized solution for a leading online travel brand to reduce the number of unqualified searches it is getting from meta channels, to improve the business KPIs like ROI/profitability/efficiency
 - Wrote the Optimization Program using lpsolve from Pulp package (Pyspark) and Random Forest from MlLib

Big Data Developer

AIG (American International Group)

01/2015 - 11/2015

Worked as Big Data Developer to internal AIG teams across the globe. Desgined and built a POC around Spark and Big Data Ecosystems

Achieved Databricks certified Spark Developer Certification

Software Engineer

Blue Star Infotech 07/2013 - 02/2015

Worked as Software Engineer, joined here as a fresher.

Learned and worked around Big Data tools such as Hadoop, Hive etc.

Personal/Open Source Projects

Deep Learning - https://github.com/vipulrai91/my-projects/wiki/Projects-Home

- MNIST digit classifier from scratch built a classifier using Keras, tensorlfow to classifiy MNSIT dataset digits from scratch
- Binary classifier transfer learning, hosting as web service using VGG16 and Flask on live browser which allows user to upload an image and it returns predections whether it was a cat or a dog
- Sign Language digit classifier using MobileNet Keras built a classifier to classify the sign language hand digits and deployed to as web service using tensorflowjs

pandas-dev/pandas

Active contributor to pandas-dev, participant in discussions, bug fixes and documentation, test and generic topics

Kaggle

Participant in multiple competitons, some being

- Google Research quickdraw-doodle-recognition used Pytorch and resnet34 model to build a classifier secured bronze medal and rank 119/1316 top 10%
- Tweet Sentiment Extraction Extracting support phrases from sentiment labels built model using Tensorflow, Keras and Transformers API roBERTa ongoing
- oogle Analytics Customer Revenue Prediction build the model to predict revenue per customer using XGBOOST secured rank 717/3611 - top 20%
- Human Protein Atlas Image Classification build model to classify mixed patterns in protien images uisng PyTorch and resnet34 secured top 23% rank (493/2169)

Education

Computer Science and Engineering

Jawaharlal Nehru Technological University

Languages

• English • Hindi