




RAJAT RANJAN

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WORK EXPERIENCE

Present

Senior Systems Engineer Infosys Australia

Melbourne, AU

- Credit Risk Modelling - Evaluate effective risk management on the borrower's overall ability to repay loan for different loan repay thresholds like 90/180 days using Hypothesis Testing. Data Modelling with visualisations.
- Analytics based solution for Customer Churn by recommending customer centric banking products using recommendation engines. Documented findings resulted in lower churn rate more than 10%.
- 5+ Proficiency in maintaining SQL SP and DDL and DML scripts for Dashboarding purpose. Efficiency of Purge jobs improved by 80%.
- 5+ Full stack experience in distributed and loosely coupled application development of Internet banking using microservices and cloud such as AWS, Openshift etc. Maintaining release activities and restful API contracts.
- Designed, implemented and evaluated new models and rapid software prototypes to solve problems in machine learning and systems engineering.
- Proficient in handling big data, Data Engineering, Modelling using AWS Sagemaker, creating data pipelines, feature engineering.

2016 - 2019

Senior Systems Engineer Edgeverve (An Infosys Company)

Pune, IN

- FP reduction for Alerts based on Compliance Policies such as AML, Sanctions using Clustering to solve classification problems and reduce humane intervention for Banking Services by more than 50%.
- Prototyped machine learning applications and quickly determined application viability. Incorporated AI/ML Metrics for Classification/Regression.
- Information Extraction of important clauses in an ISDA document and to develop predictive modelling. More than 60% of human effort was reduced and the combined accuracy of trained models skyrocketed to 77% for selected clauses.

2010 - 2011

Systems Engineer Trainee Infosys

Mysore, IN

- Python terminal Application for Cricket tournament Management system
- integrated with MySQL (OOPS Framework)
- Learning new technologies with Python, Machine learning and participation in hackathons.



PROJECTS

Machine Learning Projects

- **Image Classification** done for Covid 19 Mask prediction using **fastAI** to get 98% Accuracy.
- **Insurance Policy Lapse Prediction** for customer based on demographic and transactional data. F1 Score 89%.
- Projects based on **Intel Open VINO Toolkit** for Smart Queuing System.
- **Image Classification and Object detection** of high-resolution satellite imagery to identify the locations of informal settlements using shape files with 96% accuracy (Tools: Geopandas, fastai, Kfold)
- **Sentiment Analysis** - Dynamic UX (Full stack Machine Learning) embedded with ML models to predict customer feedback sentiment over web. Web Server using Flask, Model Deployment using Heroku, Github.
Tools: Python, NLTK, RESTful Web Services
- **ML Models as Scalable Micro Services** - Generic API for regression and classification using embedded models over web to cater different datasets with integrated pipeline.
Tools: Python Scripts, CircleCI, joblib, RESTful, Heroku, Git



EDUCATION

2012 - 2016

B. Tech in Computer Science & Engineering

Orrisa, IN

Gandhi Institute For Technological Advancement (8.49 GPA)

2010 - 2012

Higher Secondary Certificate(XII)

Jharkhand, IN

D.A.V. Hehal (CBSE) (89.2%)

2010

Secondary School Certificate (X)

Jharkhand, IN

Surendra Nath Centenary School (9.6 CGPA)



WHY ME?

5+ Experienced SSE with a demonstrated history of working in the IT and services/product industry. Skilled in Machine Learning, Modelling, Visualization using Python libraries. Strong Onsite Client interaction and analysing stakeholders needs. Proficient in data analysis using Hypothesis Testing and deriving statistical inference. Skilled in J2EE Web Services, Python, React, Web Development and MySQL Database queries. Strong and productive in Front end Applications. Strong data science skills with experience in data wrangling, analytics, pre-processing.



SKILLS

Machine Learning	●●●●●●
Python	●●●●●●
Predictive Modelling	●●●●●●
Computer Vision	●●●●●●
Database (SQL)	●●●●●●
Inferential Statistics	●●●●●●
Microservices	●●●●●●
Front/BackEnd	●●●●●●
Version Control (Git)	●●●●●●
Java	●●●●●●
Client engagement	●●●●●●
Tensorflow	●●●●●●
Programming	●●●●●●
BI Tools	●●●●●●



ACHIEVEMENTS

- **Top 5** in Analytics Vidya Global Leaderboard Rankings
- **3rd Prize** in To Vaccinate or Not to Vaccinate Zindi hackathon
- **7th Rank** in AWS DeepRacer League organised by ANZ.
- Microsoft Azure Machine Learning by Udacity Scholarship Foundation Course.
- **1st** at CRISIL Machine Learning HiringC challenge'19 for Information Text Extraction
- Intel Edge AI Scholarship Winner 2019, Nanodegree Udacity
- **Top 21 finalist** in YES Bank Datathon for providing Machine learning based Banking Solution.
- **3rd** in Brainwaves 2019 Machine Learning Hackathon by Societe Generale.
- **11th** in LTFS FinHack Machine Learning Hackathon among thousands of participants
- **3rd** in Edelweiss Hackathon Machine Learning organised by Hackerearth clauses.