Los Angeles, CA
www.linkedin.com/in/rohan3

ROHAN SINGH RAJPUT

rohan.rajput4@gmail.com

(321) 310 3620
https://github.com/Rohan0401

PROFESSIONAL EXPERIENCE

Data Scientist II **Ticketmaster (Live Nation), Los Angeles-CA** **Sep 2019 –**

- Delivered Machine Learning Interpretability and model monitoring system using latent factors of Matrix Factorization based model using python. Created data pipelines using AWS APIs. Integrated DOMO for monitoring and email alert system.
- Developed Deep Learning based Natural Language Processing Model for artists and events. Extracted features for Ticketmaster recommendation system using Spacy, Fasttext and sk-learn. Create data pipelines for in-house and open data.
- Deployed the application on AWS infrastructure using terraform, AWS Step-function, Elastic Container and AWS Fargate.
- Planned and Administered A/B testing for the impact Test of the new features on In-production Recommendation system.
- Applied statistical test like score-test to determine the sample size, statistical power and significant statistics for the Control-Treatment group. Utilized python and statsmodel packages to run simulations. Created report and documentation for test.

Machine Learning Engineer **Owned Outcomes Inc, Las Vegas-NV** **Oct 2017 – Aug 2019**

- Collaborated with pharmacies, hospitals to create a model for predicting patient risk scores, factors using EHR, census data
- Upgraded a rule-based model to ensemble machine learning predictive model using regression and XGBoost. Improved the patient adherence by 21% leading to reduced costs for healthcare insurance providers
- Conducted literature review, preprocessed data, applied statistical modeling to extract sensitive information from EHR data
- Extracted patterns from hyper-dimensional clinical and census data using t-SNE and UMAP. Reduced feature space using FAMD, CCA and Randomized SVD. Shared results with medical officers and statistician
- Built and integrated custom python package using Plotly, Celery (RabbitMQ) for Bigdata visualization in Django app
- Saved medical researcher time by achieving 13% increase in silhouette score over traditional K-Means clustering

Data Analyst, Intern **The Walt Disney Company, Orlando-FL** **Jan 2017 – May 2017**

- Automated a manual data mining process using Microsoft SQL server and SSIS process. Created SSIS package on C# for automation. Written various stored procedure, configured XML, created documentation for the project.
- Written complex queries for the data cleaning and fetching from various other databases systems for workforce management and prediction team. Coded a production downright SQL module implementation of the whole project stack.
- Removed 16 hours of manual work and reduced the production error to less than 5%.

Software Engineer **Tata Consultancy Services, India** **Dec 2012 - Jun 2015**

- Worked on enhancement project for Data analytics tool. Created reporting and visualization tool.
- Automated report generation, monthly dashboard, and analytical processes for team. Used Java, Adobe Flash and MySQL server. Created client website and build web application to improve client interaction.
- Reduced manual workload by 10-15 hours monthly. Project used among global team members.

EDUCATION

Orlando, FL **University of Central Florida** **Aug 2015 – May 2017**

- Master of Science in *Computer Engineering*
- Graduate Research Assistant, Centre for Research in Computer Vision, UCF

India **Rajiv Gandhi Technological University** **Aug 2008 – June 2012**

- Bachelor of Science in *Electrical and Computer Engineering*

TECHNICAL SKILLS

- **Languages, Framework**: Python, Java, R, SQL, MATLAB, Django, Graphene, TensorFlow, Sci-kit Learn, PyTorch
- **Tools**: Unittest, Coverage, Sphinx, read-the-doc, JIRA, Git, Gitlab, Docker, Kubernetes
- **Database and Cloud**: PostgreSQL, MySQL, T-SQL, AWS, Floyd Hub, Azure

ACKNOWLEDGEMENTS

- **Talk**: Delivered session at 6th Annual Global Big Data Conference, 2018 on *Large Scale Machine Learning*
- **Winner**, **Royal Bank of Canada & Microsoft Hackathon (2017)**: Designed customized recommendation system for profit-based crypto-currency trading; Developed and deployed on Microsoft Azure cloud in 36 hours.