

RAKESH VARMA SIRI

+91 7842398423 — rakesh.siri@outlook.com — linkedin.com/in/rakeshsiri/

WORK EXPERIENCE

redBus, Bengaluru — Senior Data Engineer

Feb 2019 - Jun 2019

Senior Data Engineer

Dynamic Pricing for Buses: Responsible for building dynamic distribution of seat allocation for intra city routes with multiple destinations using Graph Theory to scale existing Dynamic pricing for multiple bus services.

Impact: Increased in conversion of 100+ services within a month.

Dynamic Pricing for Cabs: Responsible for analysing and predicting the cab driver behaviour to adjust fares accordingly based on the demand for outstation cabs.

Impact: Significantly reduced cab drivers from cancelling rides in last minute and reduced refunding cost by 40%.

Mindtree, Bengaluru — Senior Engineer in Data Science Engineering

Mar 2015 - Feb 2019

Financial Insights App: For a London based Fintech startup, I was leading a team of data engineers to collect, process and store data. Developed statistical and machine learning models and with visualization. Responsible for requirement analysis and communicating the results with stakeholders.

Impact: Acquired 2 Fortune 100 BFSI companies as customers.

Lawful surveillance product: Complete ownership on designing, implementing, and delivering a lawful surveillance product based on call records with key features being anomaly detection and proximity alarm using Graph Theory, Machine Learning with Interactive Visual Dashboard.

Impact: Acquired customers on data science requirements with top customer signing a \$2 million project.

EDUCATION AND CERTIFICATIONS

Plaksha University, Delhi NCR — Sutardja Center for Entrepreneurship and Technology, UC Berkeley

Tech Leaders Fellowship

Aug 2019 - June 2020

Artificial Intelligence, Innovation and Entrepreneurship, Leadership

JNTUA, Anantapur

Sep 2010 - Aug 2014

Bachelor of Technology, Computer Science and Engineering

Imperial College London, on Coursera

Jan 2020

Mathematics for Machine Learning Specialisation: Linear Algebra, Multivariate Calculus, PCA

PROJECTS

Distilling neural networks for interpretable NLP to identify bias: With BERT and GPT as backbone, logistic regression and single layer neural network as head of a model, experimented to achieve similar results to that of BERT, check for interpretability with LIME and test against different metrics to identify bias.

Text Summarizing on Movie Scripts: Summarize movie scripts by text abstraction, using Encoder-Decoder Model for Sequence-to-Sequence with Attention. Extract top lines in movie script using Text-Ranking algorithm.

Virtual apparel try-on using GANs: Developed GAN based virtual try-on methodology for apparel transfer on to a desired human model; implemented different GANs and variational auto encoders.

Curiosity-Driven learning: Tried to understand and improve it in a game environment(DOOM) with combination of Deep Reinforcement learning techniques like Double Q-learning and LSTM.

SKILLS

Technical

Deep Learning for NLP, Computer Vision for Image Processing, Machine Learning, EDA, Graph Theory, Scalable Distributed Programming for AI, Visualization, Cybersecurity

Software & Tools

Python, Pytorch, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Flask, Docker, Git

Critical skills

Design thinking, Ethical thinking, Critical Thinking, Group dynamics

AWARDS

Pillar 2018 from Mindtree, awarded for top 5% of contributors in an organisation of 20,000 employees.

Outstanding Performer 2017 and in **2018** from Mindtree, awarded for top 10% of 20,000 employees.