Utkarsh Ranjan

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EDUCATION

University of California - San Diego | California, US   Sep. 2022 – Mar 2024
M.S. in Electrical & Computer Engg. (Major: Machine Learning & Data Science)

Indian Institute of Technology (Banaras Hindu University), Varanasi | IN   Jul. 2015 – May 2019
B.Tech. in Electrical Engineering   GPA: **8.6** / **10**

SKILLS

Languages : Python, R, SQL, Java, C++
Big Data : PySpark, Hadoop, Map Reduce, AWS
Machine Learning : PyTorch, Pandas, Numpy, scikit-learn, Spacy, TensorFlow, Spark NLP
Technologies/Dev Tools : MongoDB, Tableau, Git

EXPERIENCE

Apple   Jun. 2023 – Sep. 2023
Summer Intern | Services – Ad Platform Data Insights Team   *Cupertino*, US
- Analyzed impact of predictive models on advertiser selection and made recommendations that will result in significant cost savings related to infrastructure investment and resourcing
- Created data pipeline to parse, enrich and transform novel logs and made them available in AWS tables to facilitate seamless utilization by cross functional teams
- Interacted with stakeholders from Data Science, Product and Engineering to incorporate their feedback and thoroughly understood ad-tech, auction theory and prediction models.
- Consolidated complex anlaysis into simple actionable insights and presented my findings to multiple teams and Senior Leadership team.

Gartner,Inc   Jun. 2019 – Jun. 2022
Data Science Associate | Services - Data Science Team   *Gurgaon*, IN

IRIS : Recommendation System | PySpark, AWS, SparkNLP, Scikit-learn, Pandas, Neo4j, Git
- Developed Python based recommendation system to suggest actions for clients based on their digital footprints.
- Created graph embedding for clients using Neo4j to train models using activity history of peer connections

GPR - IVR Survey : Comment Classification | SparkNLP, Scikit-learn, Pandas
- Developed a text classifier to mine the root causes of dissatisfaction from client feedback. Reached an F1- Score of 75% for determining action areas for corresponding business units
- Brought down the time spent from 2 weeks to 15 minutes for classifying client comments by creating a classification model using BERT

SIVR : Creating a parameter to score client's engagement | Pandas, MongoDB
- Created a performance metric : SIVR using multivariate analysis on client engagement data to calculate the quality of value interaction with clients
- Spearheaded the development of an automated mailing system for service executives to ensure swift issue resolution and tracking

Gartner,Inc   May. 2018 – Jul. 2018
Summer Intern | Services - Data Science Team   *Gurgaon*, IN
- Trained and test various supervised algorithms like Random Forest, Naïve Bayes and SVM using TF- IDF feature vectors to create a new FILTER in the tool achieved a **classification accuracy of 83%**
- Brought down the time spent from **15 hours per week to 2 hours** by automating the process of report generation using python for efficient client service

Indian Institute of Space Science and Technology   May. 2017 – Jul. 2017
Summer Intern | Department of Mathematics   *Triandrum*, IN
- Developed a framework to capture the meaning of an unknown word by leveraging its root word and suffix through word embedding.
- Implemented Markov Chain Monte Carlo on UC Irvine Machine Learning Repository to achieve a **macro- average precision of 91% over 11 classes.**