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Education

Columbia University, New York, NY

Master of Science in Data Science

Relevant Coursework: Machine Learning, Neural Networks and Deep Learning, Data Analytics Pipeline, Personalization (Recommendation Systems), Exploratory Data Analysis and Visualization, Algorithms, Statistics NSIT, University of Delhi, Delhi, India Aug 2013 – Jun 2017 Bachelor of Engineering in Computer Engineering CGPA: 7.63

Relevant Coursework: Artificial Intelligence, SQL, Algorithms and Data Structures

Technical Strengths

Skills Python (Pandas, Numpy, Scikit-learn, TensorFlow, Keras, SpaCy, NLTK), R, SQL, NoSQL, AWS, Spark, Scala

Data Science Experience

Capital One, New York, NY

Senior Data Scientist

- Building the next generation of Small Business customer risk ML models, providing 15% improvement over existing models.
- o Built a modeling framework to allow easy building of models, local and on EMR clusters, and link up with SQL databases.
 - o Built a custom metric to measure effectiveness of a risk model, which was used in grid search to select the best performing model.
 - o Shipped best performing real-time analytical model to production and worked with them to validate inputs and model scores.

Capital One ,New York, NY

Data Science Intern

- o Built a database of USA businesses, used to reach out to potential customers, and assist in fraud detection and KYC verification with the help of algorithms, Big data, and ML models, for a **10% higher coverage**.
- Applied graph algorithms to evaluate use cases of graphs in finding new potential customers and businesses.

ZS Associates, Gurugram, India

Data Scientist

- Formed a state space search model to optimize Inclusion/Exclusion patient pool for clinical trials.
- o Prepared a webapp using **Django** to display physician records using various data sources, which was presented at a conference, to provide an enhanced view to the client regarding each physician record.
- Produced multiple ML models to find prevalence of AFib, providing an upscale of **\$30 million** to the client.

Academic Projects

Bloomberg L.P.

o Predict a news article as an Editorial or a regular article, which would replace the rule-based filter on the Bloomberg terminal. o Built classifiers using LightGBM and XLNet and TF-IDF, Bag-of-words, and VADER (sentiment analysis) featurizers .

Earth Institute, Columbia University

- Analyzed physician-patient interactions of medical students to determine students who need guidance.
- o Used NLP techniques like TF-IDF and word vectors to build an ML model for various criteria of interest.

Leadership & Teaching

Columbia University, New York, NY

Graduate Course Assistant

- o Teaching assistant for COMS W4995 Applied Machine Learning under Prof. Andreas Mueller and Elements of Data Science under Prof. Bryan Gibson.
- Provided guidance to graduate students and created and evaluated assignments and projects in Python.
- The courses provide a foundation of analysis of data and discuss the application of machine learning models on real world data, with hands-on experiments with Python.

Publications

• Ujjwal P., Tanay J. and Shivam K., Touchless Recognition of Hand Gesture Digits and English Characters Using Convolutional Neural Networks in Lecture Notes in Computer Science, Vol. 11407. Springer, 2019.

Jul 2017 - Jul 2018

Sep 2019 - Dec 2019

Sep 2018 – May 2019

Sep 2018 – May 2019

Aug 2018 – Dec 2019

GPA: 3.73

Ujjwal Peshin

Feb 2020 - Current

Jun 2019 - Aug 2019