A M I T K U M A R S I N G H

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ Expected December 2022

Master of Science in Data Science **GPA**: 3.82

Coursework: Applied Machine Learning, Web Mining, Big Data Analytics, Deep Learning, Statistical Methods, Probability, Linear Algebra Review, Optimization Methods, Time Series Analysis

KC College of Engineering and Management Studies and Research, India 2007 – 2011

Bachelor of Engineering in Information Technology (1st Class)

SKILLS

- **Skills:** Machine Learning, Data Analysis, Big Data Processing, Statistics, Natural language processing, Spark, Hadoop, CI/CD, Amazon web services (AWS), Data Visualization, Application Development, Agile Methodology
- **Languages**: Python, Java, SQL, Shell Script, JavaScript, NoSQL
- **Python Libraries**: Pandas, SciKit-Learn, Matplotlib, NLTK, Scrapy, TensorFlow, PyTorch, pySpark, Keras
- **Database**: Oracle, MySQL, MongoDB, Hsqldb
- **IDE and Tools:** Jupiter Notebook, Jenkins, GIT, SVN, JIRA, Gradle, Maven, Control-m, Eclipse, SQL developer

ACADEMIC PROJECTS (Stevens Institute of Technology)

Music Recommendation System (Big Data Analytics) Spring 2022

- Applied collaborative filtering, Alternating Least Square using Apache spark to recommend songs to users
- Used various classification methods and applied ensemble method to generate the best recommendation to users

Multi-label classification for tag predictions in programming challenges Fall 2021

- Performed data preprocessing, cleaning, and Exploratory Data Analysis on CodeForces platform dataset
- Carried out prediction using Logistic Regression (OnevsRest) classifier, Random Forest classifier, XGBoost classifier algorithms, SGD Classifier and Bi-LSTM. Performed hyperparameters tuning of models for better accuracy

Phone Review Analysis and Summarization (Natural Language Processing) Fall 2021

- Scrapped phone reviews from multiple tech-blog sites. Done visualization and analysis for hidden data insight
- Summarized long reviews applying the extractive algorithm like Text Rank and abstractive deep learning algorithms
- Designed and Modeled algorithm to determine and segment sentiment of reviews

PROFESSIONAL EXPERIENCE

Accenture, Mumbai, India 06/2017 - 12/2020

Senior Software Engineer

- Created model to produce report classifying customer segmentation and predicting customer churn in bank
- Built end-to-end and multi-threaded applications and wrote complex SQL queries on a large dataset to allow clients to analyze trades, generate detailed reports, and visualize data. Reduced report fetching time by 90%
- Developed a CI/CD pipeline to run different project stages like development, testing deployment on development, test, and production environments, which reduced new feature development and development time significantly by 50%
- Migrated application on-premises servers to Amazon web services (AWS), thus minimizing report extraction time
- Contributed to many projects Individually. Mentored junior developers on various technologies and modules

Majesco Software and Solution India, **Navi Mumbai, India** 07/2014 - 06/2017

Senior Software Engineer

- Created insurance content management tool. Applied different algorithms, data structures, and object-oriented design patterns to optimize the performance time and code simplicity of the data-driven product
- Built extensive test coverage using the unit and integrated test, which increased product stability and reduced QA time

E-cognosys Information System, Mumbai, India 03/2012 - 07/2014

Software Developer

- Developed an analytical application that Extracted data from blogs and social networking sites, transformed data to a given format, and load data to MongoDB NoSQL database. Used Hadoop and MapReduce for big data processing
- Contributed to data cleaning, exploratory data analysis, sentiment analysis, predictive analysis, and data visualization
- Used Tableau to build interactive visualizations which help to answer business questions