Neel Kapadia

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EDUCATION

Master of Computer Science, North Carolina State University - GPA: 3.78/4.0 [August '17 – May '19(Expected)]

- *Coursework:* Design and Analysis of Algorithms, Foundation of Software Science, Software Engineering, Database Management Systems, Spatial and Temporal Data Mining, Foundations of Data Science

B. Tech, Information Technology, Veermata Jijabai Technological Institute - GPA: 8.75/10 [July '13 - May '17]

- *Coursework:* Software and Object-Oriented Software Engineering, Database Management Systems, Data Warehousing, Data Structures and Algorithms, Neural Networks, Data Mining, Cloud Computing, Computer Networks

SKILLS AND EXPERTIZE

- **Languages:** Java, Python, C++, C, JavaScript, NodeJS, NoSQL, SQL, R, Shell Scripting, XML, HTML, CSS, MATLAB, PHP
- **Tools:** AWS, Amazon Mechanical Turk, MongoDB, MariaDB, MySQL DB, Weka, Apache Hadoop, Oracle SQL Developer
- **Operating Systems:** Windows, Ubuntu, UNIX, Mac OSX

WORK EXPERIENCE

Barclays Technology Center, India [May '16 - July '16]

Business Analyst Intern, Investment Banking Services **(Java, Python, Shell Script, Maven, SVN, Git, SQL)**

- Modeled an algorithm to suggest profitable transactions for Investment Banking and worked on message broker Apache Kafka
- Built 14 scripts to reduce reliance on SVN system by migrating source code to GIT and SCM management using Python API

Larsen and Toubro, India [May '15 - July '15]

IT Intern, Spend Analytics Department **(Python, R, Regression, Clustering)**

- Collaborated on Spend Analytics project on Big Data for Supply Chain Management
- Implemented an algorithm to improve the cost-cutting model (by 18%) and predict future trends in expenditure

Fifth Quarter InfoMedia [May '14 - July '14]

Web Development Intern **(HTML, CSS, JavaScript, SQL, PHP, JSON, Bootstrap)**

- Developed a music and entertainment website using web development design principles and tools
- Worked on MySQL database and Bootstrap templates

ACADEMIC PROJECTS

Software Engineering – WolfPal: Course Recommender System **(Java, Python, Natural Language Processing, JavaScript)**

- Designed a system to give course suggestions to students based on their area of interest and past achievements
- Created a discussion forum where students can discuss about the courses with peers/seniors
- Used Natural Language Processing to extract keywords from students resume and recommend related courses accordingly

Spatiotemporal Data Mining – Analysis of Global Check-in Foursquare Data **(Python, Data Visualization, JavaScript)**

- Visualized global NYC check-in data using Google Map API
- Created a personalized recommendation engine to suggest places to users using probabilistic modelling
- Implemented an algorithm which recommended users to places using Bayesian probabilistic model and collaborative filtering

Software Engineering – WolfPlanner: Automatic Task Scheduler **(JavaScript, Python, NodeJS, AWS, NoSQL, MongoDB, DialogFlow)**

- Designed a system to generate weekly schedules for students for home work, assignments and projects
- Provided exclusive functionality to decide project meeting timing based on availability of each team member
- Maintained the system to be resistant to overloaded schedules and urgent/unplanned events

Data Mining - Decision Tree Learner **(Python, R, Decision Tree, Contrast Sets)**

- The project aimed towards building a decision tree classifier rather than using libraries for multi-objective optimization
- Pre-processed the data and used supervised discretization, entropy, and domination measures to generate a decision tree
- Generated contrast sets for optimization using delta, effects, plans and monitors measured from the decision tree

Software Engineering and Data Analysis – Online Accreditation System **(Java, Python, JavaScript, PHP, HTML, CSS)**

- Designed a system that stored and analyzed the data of extra-curricular and academic activities of students
- Designed association rule mining and clustering algorithms to generate trends in strengths and weaknesses of students and suggested curriculum changes which would help them to perform better
- Implemented API to auto-generate reports for evaluations using TCPDF, Reportico and Google Charts

EXTRA CURRICULAR ACTIVITIES

- **Certifications:** Machine Learning (Grade: 96.5%) by Stanford University, Programming Languages Java, C and C++
- **University Events:** Chief Sponsorship Officer (headed a team of 100 students) in Technovanza (college festival)
- **Community Services:** Waste paper collection to gather funds for medicines of elderly people, organized fun activities with children in orphanage and elderly people in old age homes, in association with NGOs
- **Interests:** Numismatics, Cricket, Music