ROHAN PATEL

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SUMMARY

- Experience with Python along with a strong understanding of CS fundamentals and object-oriented programming.
- Experience using machine learning tools and libraries like NumPy, Pandas, Scikit-learn, MATLAB and WEKA.
- Strong foundation in writing RESTful web applications using Node.js and Express.

EDUCATION

Master of Science, Computer Science, San Francisco State University **May 2019 (expected)**

Bachelor of Technology, Information Technology, Manipal Institute of Technology **July 2012 – July 2016**

COURSES

Analysis of Algorithms, Machine Learning, Pattern Recognition, Big Data Analytics, Software Engineering, Data Mining, Database Management Systems

TECHNICAL SKILLS

Languages:	Python, C++, Java, SQL, Javascript, HTML, CSS
Libraries/Frameworks:	Node.js, Express, NumPy, Pandas, Matplotlib, Scikit-learn, NLTK
Others:	Jupyter, Weka, Tableau, AWS, Matlab, Android, UNIX/Linux, Git, Jira

PROJECTS

WWW Site for Reporting and Managing Environmental Issues | GitHub | Website URL | Jan 2018 – May 2018
- Built a WWW app using Node.js, Express (server side), Bootstrap (front end), and MySQL.
- The site was developed in a team of 7 students simulating a real product environment and following agile methodologies where my role was that of the backend lead.
- Implemented core functionalities like search, integrating google maps, posting of environmental issues including uploading images to filesystem, setting up filesystem on cloudinary, deploying app to Heroku, etc.

SMS Spam Detection using Machine Learning and NLP | GitHub | Python | Feb 2018 – May 2018
- Built a spam filter using ML and NLP techniques that could classify text messages as spam or non-spam (ham).
- Main steps involved data analysis and feature engineering, text pre-processing, text classification, parameter tuning, and model evaluation using cross validation and learning curves.
- Final classifiers gave an accuracy of 0.98 on the UCI SMS dataset and 0.888 on the DIT SMS Spam dataset.

Image Classification using Discriminant Eigenfeatures | GitHub | Matlab | Oct 2017 – Nov 2017
- Built an image classifier that could classify facial images as male or female.
- Principal Component Analysis (PCA) and Linear Discriminant Analysis (LDA) were performed to train the model.
- The final model had a model accuracy of 93%.

The Movie Recommender | GitHub | Python | Oct 2017 – December 2017
- In this project I built a recommendation engine for giving personalized movie recommendations.
- The dataset used was an ensemble of the MovieLens and TMDB datasets that contained over 45000 movies.
- Two types of engines were built: A Content Based Recommender and A Collaborative Filtering Recommender.

EXPERIENCE

Software Engineering Intern - DevOps **June 2018 – Present**
Zumigo Inc. – San Jose, CA
- Currently in the summer, I'm working as a Software Engineering Intern at Zumigo, on their DevOps team.
- Working on Zabbix (open source monitoring tool). Written Python and Bash scripts to send Zabbix alerts, execute remote commands and create monitoring solutions.

Software Engineering Intern **Jan 2017 – June 2017**
Learn To Drill – Mumbai, India
- Worked on a 5-member engineering team. Worked on developing, maintaining and enhancing android apps
- Secondary work included QA and spec writing, and I wrote the main design spec for one of their android apps.