Rushabh Shah

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EDUCATION

INDIANA UNIVERSITY BLOOMINGTON, BLOOMINGTON, IN   **Expected in May 2021**
Master of Science in **Data Science**   **GPA: 3.86/4.0**
Relevant Coursework: Machine Learning, Elements of Artificial intelligence, Statistics, Exploratory data analysis, Big data
NMIMS, INDIA   **July 2015 - April 2019**
Bachelor of Engineering in **Computer Science**   **GPA: 7.2/10**

TECHNICAL SKILLS

Programming and Tools: Python, R, SQL, NoSQL, Tableau, Docker, AWS, Spark, Openrefine, Restful API

Machine learning: Supervised and unsupervised, Decision trees, SVM, Gradient Boosting, Random forests, Markov Models, Gaussian processes, GLM, Scikit

Deep learning: NLP, RNN, CNN, LSTM, Mask R-CNN, BERT models, ELECTRA, Pytorch, Keras, Spacy

Analysis: Exploratory Data Analysis, A/B testing, Multivariate Analysis, Statistical Modeling, ANOVA, T-test

PROFESSIONAL EXPERIENCE

Data science Intern | Travelers, USA   **June 2020 - Aug 2020**
- Built the latest transformer neural network model **ELECTRA** using **PyTorch** to create a language model. **(NLP)**
- Performed preliminary data analysis and pre-processed gigabytes of data using **Pandas** and **NLTK**.
- Distributed the training on **GPUs** to improve the training speed by 5 times.
- Improved the existing model's performance by **8%** and reduced computation time by **17%** on text classification.
- Helped the legal team by automating decision making using reformation data and the underwriting team by classifying the underwriting notes into various categories.
- Maintained containers using **Docker** by writing Dockerfiles and maintained **git** workflows for version control.
- Communicated the results to various teams and wrote a blog on the company's website.

Co-Founder | Skinslayer Technology LLP, INDIA   **May 2017 - Mar 2019**
- Set-up a B2C company. Developed an e-commerce website using **HTML**, **JAVASCRIPT**, and **nodeJs**.
- Decreased load time speeds by 15% by modularizing the code and optimizing queries.
- Built daily reporting on customer website activity. Shared deep-dive analysis to gain actionable insights to drive user base, activity, and revenue growth using **Tableau**.
- Profiled customers' average spending time and usage to enhance the user-interface lifting the "add to cart" rate by **15%**. (**A/B testing).**
- Designed an Internship program, managed 3 interns in marketing and data analysis which hiked the sales by 25%.

Software Developer Intern | B2X Care Solutions, INDIA   **April 2018 - July 2018**
- Revamped various functionalities of the service software to manage after-sale services. Defined and tracked key performance indicators **(KPI's)** for existing and new functions across the company.
- Built **RESTful APIs** to serve data uploaded by the service center on the server to the front end for the clients.
- Helping the team to build backend solutions in **NodeJS** to track the repair of devices.
- Managed client databases by verifying data integrity using **SQL**.

RELEVANT PROJECTS

RECOMMENDATION SYSTEM USING COLLABORATIVE FILTERING | Python, *NumPy, Pandas, matplotlib*
- Built a Recommendation system with item-item similarity and matrix factorization using Simon funks SVD. Successfully created an algorithm to recommend movies to users.

SENTENCE CLASSIFICATION USING BERT (NLP) | Python, Pytorch, Pandas, GPU
- Fine-tuned BERT to predict whether the sentence is grammatically correct. Trained on a GPU and achieved **82%** accuracy on the validation set.

DETECTING CREDIT CARD FRAUD USING XGBoost and VOTING CLASSIFIERS | Python, Scikit-learn, Pandas, Numpy
- Applied XGBoost on the data set and used the **F-1 score** as the metric. Carried out grid-search. **(86.7 F1 score)**
- Combined logistic regression, random forest, and XGBoost to make predictions. **(88.1 F1 score)**