

Yashaswi Singh

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EDUCATION

Northeastern University, Boston, MA

Expected graduation: Dec 2020

Related courses: Introduction to Machine Learning, Database Design, Algorithms, Web Development

Lovely Professional University, India

May 2015

Bachelor of Engineering in Computer Science

Related courses: Algorithms, Operating Systems, Data Structures, DBMS, Machine Learning

TECHNICAL KNOWLEDGE

Languages:	Python, Java, JavaScript, VBScript, C#
Databases:	MySQL, IBM DB2, MS Access, MongoDB, RESTful APIs
Web technologies:	AngularJS, HTML5, CSS, Bootstrap, AJAX, jQuery, React-Redux, NodeJS
Frameworks/Tools:	OpenAI Gym, TensorFlow, Keras, Matlab, Docker, Selenium, Tableau, PowerBI
Methodologies:	NLP, Bayesian Modeling, Neural Network, Deep Learning, Time Series Analysis

WORK EXPERIENCE

Times Internet, Gurgaon, India

Jan 2016 — Dec 2018

Senior Data Analyst

- Lead a team of five data scientist to provide insights and build predictive models for the Product and Marketing team
- Built predictive models for the marketing team, reducing the marketing cost by 35% within the first quarter while increasing the user acquisition growth rate by 20%
- Implemented Machine Learning pipeline, reducing the time needed to infer insights from customer data and understanding the marketing pattern
- Identified performance bottlenecks in our product development strategies and provided recommendations to improve existing reporting model and system design
- Collaborated with five team members and mentored 20+ employees on Data Science tools and won best mentor award by count of votes

Data Analyst

- Utilised web scraping techniques to extract and organize competitor data, thus helping the product team to stay ahead of the curve
- Saved 30 man-hours per testing cycle using data mining scripts to collect data for functional and automation testing
- Improved system efficiency and 10% reduction in marketing system analysis run time

PROJECTS

Spam Filter — Machine Learning, Python, Anaconda and Scikit-learn

Jan 2020

- Developed a spam email filter using machine learning models, Naive Bayes, Decision Trees, Random Forest, SVM and kNN
- Trained and Tested ML models on public dataset with 1000 emails and with a train-test ratio of 9:1
- Preprocessed and cleaned datasets using sophisticated techniques like Word stemming, Lemmatization and Normalization
- Used 3000 most frequent words to train and test all ML models with highest accuracy of 97.69% by Naive Bayes

RSNA Brain Hemorrhage Detection — Kaggle, ConnectAI at MIT

Nov 2019

- Collaborated at ConnectAI in MIT to build predictive models for detecting Brain Hemorrhage
- Edited more than 1000 images of different types by loading in app and applied filters like blur, sharpen, greyscale and dither
- Weighted multilabel logarithmic loss is used to score the model performance and used semi supervised and semi weakly supervised ImageNet Models

Artificial Intelligent Agent (Pacman) — Python, Anaconda

Sep 2019

- Incorporated different AI methods on the classic Pacman game using Python based on UC Berkley course on AI
- Implemented different search algorithms to help make the Pacman navigate in the maze effectively
- Used Deep-Q learning to set the reward system for the Pacman agent

Collab App — AngularJS, NodeJS, RESTful API, MongoDB

Jan 2019

- Developing a Web App to facilitate learning where students can see their courses and teachers can take live lectures
- Used AngularJS for front end and NodeJS as backend to do CRUD operations using RESTful APIs
- Created back-end server using NodeJS and MongoDB as a No-SQL database

ACHIEVEMENTS

- Received accolades 'On the spot award', 'Star of the month' and 'Applause for Team' in Times Internet multiple times
- Won 'The Best Project Award' in a competition amongst 20 learners held at Times Internet training and received 5-star rating