

EDUCATION

MS Computer Science, 3.68/4	University of Texas at Dallas	Aug 2017 - May 2019
Graduate Coursework: Machine Learning, Database Design, Data Structure and Algorithms, Natural Language Processing, Object Oriented Analysis and Design, Internet of Things		
BE Computer Engineering, 3.85/4	University of Mumbai, India	July 2013 - May 2017
Undergraduate Coursework: Artificial Intelligence, Computer Networks, Operating Systems, Web Technologies		

SKILLS

Languages: Python, Java, C, C++, Swift	Web Technologies: HTML5, CSS3, JavaScript, PHP
Data Science: Pandas, nltk, scikit-learn	Protocols: TCP/IP, UDP, Ethernet, HTTP, SMTP
Databases: MySQL	Tools: Git, Sublime, OpenCV, Anaconda, Tableau

PROJECTS (<https://github.com/shubhs1211/Data-Science-portfolio>)

FAQ Semantic Matching System, NLP	April 2018
<ul style="list-style-type: none">Preprocessed Yelp's QA corpus by tokenizing, cleaning and transforming data.Extracted semantic features using dependency parsing, WordNet, stemming, pos-tagging and lemmatization.Achieved an MRR score of 0.7 for solr model and 0.54 for Bag-of-words model implementation. Technologies Used: Python, pandas, nltk, stanfordcorenlp, pysolr, scipy, Apache OpenNLP	
Automatic Essay Scoring, Kaggle, NLP, Machine Learning	April 2018
<ul style="list-style-type: none">Performed tokenization, stemming, lemmatization and pos-tagging on approx. 13000 essays to extract features like counts of words, spelling mistakes, nouns and vocabulary richness for each essay.Predicted essay grades using Neural Networks, Random Forest and Linear Regression Model and achieved a quadratic kappa score of 0.63 after using 5-fold cross validation. Technologies used: Python, Scikit-learn, Pandas, nltk, scipy, matplotlib	
Park Smart, Internet of Things (IOT) Won 1st Prize – OneM2M Hackathon	Mar 2018
<ul style="list-style-type: none">Built an application to find and reserve a parking spot, if a user is in vicinity of an available parking spot.Implemented by exchanging data through the OneM2M platform and web server between the app and Arduino.Data collected was used to gain insights of parking space occupancy with respect to time, weather and location. Technologies used: OneM2M platform, Node.js, Java, Arduino nodeMCU	
Autonomous Greenhouse System, IOT	April 2018
<ul style="list-style-type: none">Built a prototype to nurture the plants autonomously by forming a wireless sensor network using XBee devices.Controlled the lighting and watering from an android app based on data collected from various sensors. Technologies Used: Arduino, Raspberry Pi, ZigBee, Node.js	
Grocery Sales Forecasting, Kaggle, Machine Learning	Nov 2018
<ul style="list-style-type: none">Built classification models including linear regression, neural network, XGBoost, and random forest to forecast sales for over 200,000 products. Technologies used: Python, Scikit-learn, Pandas	
Employment Status Prediction, Machine Learning	Mar 2018
<ul style="list-style-type: none">Predicted employment status by analyzing time spent by individuals on different activities based on age, education, leisure using Neural Networks and Random Forest with an accuracy of 0.94. Technologies Used: Python, Scikit-learn, Pandas, Tableau	

COMMUNITY SERVICE

Volunteer – National Service Scheme, University of Mumbai	July 2014 – July 2016
Completed 270 hours of community service which included organizing events like blood donation camps, cleanliness drives, and teaching the underprivileged kids.	

