

## EDUCATION

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

## SKILLS

**Languages: Proficient:** Python, Java, HTML5, CSS3, Bootstrap, PHP, SQL      **Familiar:** C, C++, Swift, JavaScript  
**Data Science:** Pandas, nltk, scikit-learn, pytesseract, PyTorch, Apache Spark  
**Tools:** Git, Sublime, OpenCV, Xcode, Anaconda, Tableau

## EXPERIENCE

<b>Software Developer, Intern</b>	<b>Thakur College of Engineering &amp; Technology</b>	<b>Sept 2016 – Dec 2016</b>
<ul style="list-style-type: none"><li>Developed a web-based attendance management system to keep a record of more than 2000 students.</li><li>Reduced time to generate monthly attendance by approx. 75% by automating the task.</li></ul> <b>Technologies used:</b> Bootstrap, JavaScript, JQuery, PHP, MySQL		
<b>Data Science Intern</b>	<b>KlassDiamond, India</b>	<b>May 2016 – Aug 2016</b>
<ul style="list-style-type: none"><li>Performed data preprocessing and exploratory data analysis to identify key factors affecting sales of the company including number of people, exports, imports, cost price, selling price, diamond price, current affairs.</li><li>Analyzed and presented data using graphs to gain insights to improve return on investment by 6%.</li></ul> <b>Technologies used:</b> Python, Scikit-learn, Pandas, Plotly, Seaborn, matplotlib		

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

<b>FAQ Semantic Matching System, NLP</b>	<b>April 2018</b>
<ul style="list-style-type: none"><li>Extracted semantic features using dependency parsing, WordNet, stemming, pos-tagging and lemmatization.</li><li>Achieved an MRR score of 0.7 for solr model and 0.54 for Bag-of-words model implementation.</li></ul> <b>Technologies Used:</b> Python, pandas, nltk, stanfordcorenlp, pysolr, scipy, Apache OpenNLP	
<b>Automatic Essay Scoring, Kaggle, NLP, ML</b>	<b>April 2018</b>
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul> <b>Technologies used:</b> Python, Scikit-learn, Pandas, nltk, scipy, matplotlib	
<b>Grocery Sales Forecasting, Kaggle, Machine Learning (ML)</b>	<b>Nov 2018</b>
<ul style="list-style-type: none"><li>Built machine learning models based on linear regression, neural network, bagging, and random forest and compared them to find the least error on the regression problem.</li></ul> <b>Technologies used:</b> Python, Scikit-learn, Pandas	
<b>Courier Service Robot, Computer Vision, IIT Bombay   Secured 6th position all over India</b>	<b>Oct 2016</b>
<ul style="list-style-type: none"><li>Decreased parcel delivery time by 8%, using an algorithm based on A* search algorithm.</li><li>Implemented Image Processing techniques and computer vision for object detection and path planning.</li></ul> <b>Technologies used:</b> Python, OpenCV, Raspberry Pi, Computer Vision	
<b>Park Smart, Internet of Things (IOT)   Won 1<sup>st</sup> Prize – OneM2M Hackathon</b>	<b>Mar 2018</b>
<ul style="list-style-type: none"><li>Developed a smart parking app using OneM2M, Node.js, IoT, and sensor networks to get parking availability.</li></ul>	
<b>Decision Tree Implementation, Machine Learning</b>	<b>Sept 2017</b>
<ul style="list-style-type: none"><li>Implemented the ID3 machine learning algorithm from scratch, without using any packages, and trained the model on a binary classification dataset.</li></ul>	