

# Shubham Deshpande

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## EDUCATION

**M.S., Computer Science, The University of Texas at Dallas, Texas, USA**

**GPA : 3.7/4**

**May 2021**

**B.E., Computer Engineering, University of Pune, Pune, India**

**GPA : 9.05/10**

**May 2019**

## WORK EXPERIENCE

### Project Mentor - UTDesign

**August 2020 - Present**

- Advised team during design process and ensured project deliverables
- Connected team to technical resources and expert
- Helped teams establish and meet benchmarks
- Facilitated student-corporate relationship and fostered teamwork and self-confidence

### Student Assistant - UTD CS Outreach

**August 2020 - Present**

- Tutored high school students programming languages and logic.
- Curated crash courses for deep learning convolutional neural networks.
- Assisted in volunteering clubs, camps and workshops at UTDallas.

## SKILLS

- **Languages :** Java, Python, C, C++, JavaScript, PHP, SQL
- **Web Technology :** HTML5, CSS, NodeJS, React, Bootstrap, Android, REST APIs, GraphQL
- **Databases :** Oracle SQL, MongoDB, AWS DynamoDB
- **ML & Big Data :** Numpy, Pandas, Scikit-learn, Pytorch, Pyspark, Hadoop, Kafka, Kibana, Elasticsearch
- **AWS :** IAM, EC2, ELB, EFS, RDS, Route 53, S3, Lambda, Beanstalk, CIDI, CloudWatch, SQS
- **Functional Skills :** SDLC, Agile, Web Development, Hardware, Networking Protocols, Prototyping

## PROJECTS

### Serverless Simple Voting System [ AWS | S3 | API Gateway | Lambda | DynamoDB ]

- Implement a simple voting system with serverless architecture using API Gateway and Lambda functions.
- Hosted web page using amazon s3, wrote lambda functions to request and communicate with DynamoDB
- Configured and create table with primary index in DynamoDB

### EFarm Web Application [ Mongo | Express | React | Node ]

- Developed and deployed a scalable three layered web application for selling farm products using MERN Stack
- Designed backend RESTful APIs for user profile management, admin control, product details, transactions
- Integrated services like online payment and email notifications

### Medical Consultancy Chatbot (DOCTBOT) [Python | Spacy | NLP ]

- Architected an AI product by actively participating in various phases of SDLC, from requirements definition, design, prototyping, development, testing & deployment of product
- Designed a product in python using machine learning and NLP for general medical consultancy
- Developed scripts for classifying user medical queries and deployed on local servers

### Covid 19 X-ray Detection with CNN [ CNN | Python | Heroku ]

- Designed a prototype web application using Flask framework to detect Covid 19 from Chest X-ray.
- Built a CNN classifier model with Transfer Learning approach and optimized model with 89% test accuracy
- Deployed web application using PAAS Heroku.

### Food Delivery Management System [Oracle SQL]

- Project involved designing a food delivery management system by collecting data requirements
- Designed ER diagrams and relational Schema diagrams
- Created relevant tables, added constraints, procedures and triggers using SQL
- Normalized tables further into 1NF, 2 NF and 3NF form

### Twitter Sentiment Analyzer [Pyspark | Stanford NLP | ElasticSearch | Kafka ]

- Implemented sentiment analyzer by extracting tweets using twitter API with specific tags.
- Utilized apache Kafka consumer and generated sentiments using Stanford NLP Sentiment Analyzer stored all data into ElasticSearch and designed Kibana dashboard for result

## AWARDS AND ACTIVITIES

- Best Paper Award - IEI 2019, India
- Best Research Paper Award - ICCPS 2018