

Samarth Mehta

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EDUCATION

Virginia Polytechnic State University | Blacksburg, VA

Dec 2023

Master of Science – Computer Science and its Application

GPA 3.8/4

Related coursework: Software Engineering, Web Application Development, Usability Engineering, Data Analytics

Gujarat Technological University | Gujarat, India

May 2021

Bachelor of Engineering in Information and Technology

GPA 9.6/10

Related coursework: Analysis and Design of Algorithms, Database Management System, Operating Systems, Computer Networks.

TECHNICAL SKILLS

Languages/ Database Frameworks: C, C++, Java, Python, R, JavaScript, SQL, React.js, JQuery Node.js, REST APIs, Microsoft SQL server, Mongo DB, HTML, Django, MS Excel

Tools and Technologies: Anaconda, Visual Studio, SSMS, Spyder, Jupyter notebook, R-Studio, Tableau

EXPERIENCE

Pro Start Me Technologies Pvt. Ltd | Data science Intern

Aug 2020 – Oct 2020

- Developed a Python script to connect RSS feed to our customer support chat bot and generate automated replies.
- Built a Python script to retrieve tweets in real-time based on upload source to store potential customers details in MongoDB.
- Designed marketing strategies to generate automated advertisements for potential customers.

Technoic AI Services LLP | ML Intern

Dec 2019 – Feb 2020

- Collected real-estate data based on locality, amenities, carpet area, and market cap and pre-processed the data using multinomial NB.
- Developed an Artificial Neural Network using numpy, keras libraries for real estate price prediction on the collected dataset. Fine-tuned the parameters to generate the best fit model and achieve 87.33% accuracy.

IBN Technologies Limited | Cloud Intern

Mar 2019 – May 2019

- Deployed virtual private cloud for clients using Amazon Web Services (AWS).
- Created and deployed application in WordPress in EC2 instance. Configured multiple services - routing (route53), extracting and storing data(S3), establishing data pipeline, and Simple Notification Service (SNS) for clients.

ACADEMIC PROJECTS

Encoding and classifying ASL to words |(TensorFlow, NumPy, Keras, Matplotlib, Seaborn)

Jan 2022 – Apr 2022

- Developed a Machine Learning model to classify American Sign Language (ASL) images to words.
- Images were split into patches, encoded and classified using Vision Transformer (ViT) - a deep learning model in GPU environment.
- An accuracy of 98.44% was achieved with ViT on a dataset of 87k rows which outperformed in comparison to CNN (98%), AlexNet (95%), and ResNet (97.97%).

X-ray fracture detection | (Pandas, NumPy, scipy)

Aug2021 – Mar 2022

- Collected original X-ray samples from hospitals. Performed max pooling, used 2 fully connected layer and used a ReLU activation function at output layer.
- Built a classification model using CNN to determine whether the X-ray has fracture or not. Achieved an accuracy of 75.54%

Online Book Renting Website - Book-up | (Java, REST, MySQL, Node.js)

Nov 2019 – Mar 2020

- Developed a cutting-edge web platform to connect users who want to buy\rent used or new books.
- Created use case models, product development models, empathy mappings, prototype of website.
- Created user interface using wix website builder. And added plugins to customize the forms.