

Mayur Shah

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EDUCATION

Stony Brook University

Stony Brook, NY

*Masters of Science in **Applied Mathematics**, Statistics Track*

August 2021 – July 2023

- First semester coursework includes: Probability, Analytical Methods, Data Analysis and Quantitative Finance

Navrachana University

Gujarat, India

*Bachelor of Technology in **Computer Science***

August 2016 – June 2020

- CGPA: 7.78/10

EXPERIENCE

Data Analyst

October 2020 – May 2021

Sustanix Bioplastic LLP

Gujarat, India

- Technology Used: Python, SQL, AWS, MySQL Database 8.0.21
- Reduced company's air transportation cost by at most **15%**
- Designed an email automation system which increased the engagement with clients and investors by at least **500%**
- Developed a **web scraper** for data extraction followed by data transformation and data cleaning to perform comparative analysis.
- Worked with **Google Analytics** and **Google Data Studio** to analyze traffic on the company's website

Web Developer Intern

June 2018 – July 2018

Cerebroz Edutree LLP

Gujarat, India

- Technology Used: HTML5, CSS and JavaScript
- Developed the UI of the website
- Designed it to be responsive; it is perfectly approachable across all types and size of devices

TECHNICAL SKILLS

Languages: Python, R, SAS, SQL, C++, C, Mathematica, MATLAB, Excel, JavaScript, HTML5, CSS, Java

Technologies: AWS, Google Cloud Platform, Google Data Studio, IBM Db2, Anaconda, Jupyter Notebook

Libraries: Pandas, NumPy, Matplotlib, SciPy, SciKit-Learn, Seaborn, TensorFlow, ggplot

Frameworks: Django, .NET

Certifications: Statistics - Golden Badge, Data Analysis with Python,

Mathematics for Machine Learning: Linear Algebra, Database and SQL for Data Science

PROJECTS

Ranking of Websites for Micro-Internet

June 2020 – July 2020

- Technology Used: Python, Eigen Theory
- Programmed to rank 100 websites for imaginary micro internet as per websites' interconnections
- Implemented based on eigen theory and PageRank algorithm

Automatic Instrument Detection

March 2020 – June 2020

- Technology Used: Python, Deep Learning, Neural Network
- This system identifies which instrument is being played using deep learning technology
- Recurrent Neural Network and Convolutional Neural Network was used to train the model
- Robust User Interface developed using Tkinter Library
- Database created from scratch and also made it public via Kaggle for further exploration

Home Automation Analysis

March 2018 – June 2018

- Technology Used: MQTT Protocol, C++, AWS, Arduino IDE
- Hardware Infrastructure: NodeMCU, Magnetic, PIR, Pressure and Temperature sensors
- Developed a home automation system that can control electrical appliances remotely
- AWS was used to store the data collected from the sensors