

# Ansh Nirav Mehta

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## EDUCATION

<b>Stony Brook University</b> <ul style="list-style-type: none"><li>• M.S. in Computer Science.</li></ul>	<b>Stony Brook, NY</b> Coursework: ML, Computer Networks, Visualization, Prob. & Stat., Data Science	<b>Aug 2022 – Present</b>
<b>K. J. Somaiya College of Engineering</b> <ul style="list-style-type: none"><li>• Bachelor of Technology in Information Technology.</li></ul>	<b>Mumbai, India</b> GPA: 9.04 / 10	<b>Aug 2018 – May 2022</b>

## EXPERIENCE

<b>AI/ML Intern</b> <ul style="list-style-type: none"><li>• Achieved an accuracy of 72.35% while developing a ResNet based the Discriminator of a <b>Generative Adversarial Network</b> model used for <b>AWS SageMaker</b> on Medical images (Diabetes Retinopathy).</li><li>• Engineered Deep Learning systems, including their frontend and database, and deploy them with the help of <b>Streamlit, Bootstrap, AWS, Pytorch</b>, and the company's environment.</li></ul>	<b>Entrigna</b>	<b>June – August 2023</b>
<b>Backend Developer Intern</b> <ul style="list-style-type: none"><li>• Identified important KPIs and developed a dashboard for monitoring product usage of the healthcare information management system. This functionality led to reducing the <b>system failure reports from users side by 79%</b>.</li><li>• Employed <b>AngularJS</b> for frontend, <b>Django</b> for Backend, and <b>MySQL</b> as the database to revamp the PDF generation module of the application which was vital for doctors during medical report generation and Prescription generation. Additionally, actively took part in the <b>ideation of the Hospital inventory module</b>.</li></ul>	<b>Pred Healthcare Solutions</b>	<b>April – May 2022</b>
<b>Python Developer Intern</b> <ul style="list-style-type: none"><li>• Improved an existing ML model that was used for Financial Reconciliation that was built using <b>Python and MongoDB (Studio 3T)</b>. Helped in reducing the latency resulting in improved performance. Cleaned the model by reducing the <b>lines of code from 3400 to 2960</b>.</li><li>• Wrote unit and service level tests using Selenium for the services for the application leading to a decrease of <b>14 bug reports</b> related to the UI.</li></ul>	<b>Intertrust Group</b>	<b>June – August 2021</b>
<b>Web Developer Intern</b> <ul style="list-style-type: none"><li>• <b>Built an interactive website</b> for personality trait identification, based on the <b>OCEAN model</b>, using a question and answer system, where the tech stack used was <b>Firebase, PHP, and SQL</b>.</li><li>• <b>Collected data from a group of 1000 students</b> of the Engineering Department using the system and performed analysis on the same, where the personality traits of Openness and Extroversion were common among the Engineering students.</li></ul>	<b>Software Development Cell of KJSCE</b>	<b>January – March 2020</b>

## TECHNICAL PROJECTS

### Master's Research Project

- Led a **Computer Vision** based project in collaboration with the **Harvard Medical School** and **Prof. Ayush Kumar**, developing a mobile app that aids visually impaired people. Created a dataset of about **3000 images for 14 different brand logos**.
- Trained and compared the performance of Tensorflow-based models including **RetinaNet, MobileNet, and YoLov5** on the dataset. Discovered that YoLov5 outperformed the other models with an **Average Precision (mAP@0.5)** of **77.8%**, while the Retinanet model performed at **62.3%** and MobileNet at **48.6%**.

### Healthino

- Initiated a team of 4 while developing Healthino, a web app that provides health-related assistance using an AI Chatbot, an ML-based disease prediction portal. Achieved an **accuracy of 98.6%** for the **Disease prediction system** by building an ANN model.
- Worked with **Deep learning and NLP algorithms** like **LSTMs, Bidirectional LSTMs, and Sentiment Analysis** to achieve an accuracy of **83.4%** in the chat-bot module. Adopted an agile methodology to supervise and report the progress of the whole project to the guide. Successfully authored and published **two research papers** in the renowned, **IEEE and Springer** journals, highlighting the findings and conclusions derived from the project.

### Visualisation of Airbnb listings for all states of USA

- Designed and implemented an **interactive Dashboard** for visualizing and analyzing the house listings on AirBnb using **D3.js, Flask, JS, and HTML**. It provides the user with filtering options like house price, location, type of lease, house types, top hosts in the region, etc. to streamline the house search process in a city.

### Game-Dise

- Incorporating the AI principles of **Game Playing, Mini-Max Algorithm, and Back Tracking**, Game-Dise, a mobile app, provides users with options to play Sudoku and Tic-Tac-Toe at **different competitive levels**. Developed on **Flutter, Dart, and Firebase**.

## LANGUAGES AND TECHNOLOGIES

- **Languages and Databases** - Python, C, R, SQL (MySQL, PostgreSQL), NoSQL (MongoDB), HTML, JavaScript, CSS, PHP, Bootstrap
- **Frameworks and Tools** - Django, Flask, ReactJS, AngularJS, D3.js, Flutter, JavaScript, JIRA, Git, LaTeX, Heroku
- **Data Science Skills** - Tableau, Power BI, Excel, SageMaker, Hypothesis Testing, ML, Computer Vision, Deep Learning, NLP, Azure ML Studio, AWS, Rapid-Miner, PyTorch, and TensorFlow.