

Siddharth Mehta

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Education

State University of New York

Aug 2024 – Jan 2026

Buffalo, New York

- M.S. Computer Science; GPA: 4/4
- Related coursework: Machine Learning, Deep Learning, Computer Vision, Algorithm Design, Data Intensive Computing

National Institute of Technology

Jul 2018 – Jun 2022

Hamirpur, H.P.

- B.Tech. Electrical Engineering, CGPA: 8.2/10
- Related coursework: Neural Networks, Probability and Statistics, Discrete Mathematics, Signal Processing

Skills

Languages : Python, SQL, C++, Javascript, Bash Script

Cloud & Big Data Tools : AWS (EC2, S3), GCP, Hadoop, Docker, Git, CI/CD, Postman

Machine Learning Frameworks : TensorFlow, Pytorch, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn

Databases : MongoDB, MySQL, PostgreSQL, NoSQL

Certifications : Python Programming, **Deep Learning.Ai (Coursera)**: Deep Learning Specialization with Andrew Ng

Development Tools : Visual Studio Code, Jupyter Notebook, GitHub, Docker, Hadoop

Experience

Data Science Associate

Jun 2022 – Jul 2024

ZS Associates

Pune, India

- Led development of composite machine learning models in collaboration with stakeholders, achieving over **90% accuracy** for customer prioritization, significantly **increasing revenue by 15%**
- Built robust pipelines, optimizing data processing from **15+ sources**, ensuring scalability and data integrity using distributed cloud technologies (AWS), Hadoop Oozie, and the Kedro Framework
- **Improved data quality by 20%** through development of rigorous quality checks and testing automations
- Automated redundant workflows using Python and bash scripts, leading to **30% increase in team efficiency**
- Underwent **Agile methodology training**, contributing to iterative development and improving delivery timelines

Machine Learning Intern

May 2020 – Jul 2020

Lakebrains Technologies

Udaipur, India

- Researched & implemented state-of-the-art face recognition algorithms - **Dlib**, **OpenFace**, **FaceNet**, and **MTCNN**
- Performed POC with varying datasets to select optimal algorithm for real-time use cases, improving **accuracy by 12%**
- Enhanced system performance using a Motion Detection algorithm, resulting in **20% reduction in idle system load**
- Integrated face recognition algorithm on **Raspberry Pi** and **Jetson Nano**, achieving **30% reduction in costs** while ensuring efficient real-time performance

Projects

Traffic Monitoring System using YOLOv3

Aug 2024

- Developed real-time traffic monitoring system to detect and track vehicles in feeds, using **YOLOv3** for object detection.
- Optimized processing speed to **10 FPS**, enabling efficient analysis of video streams and providing live updates.
- Tracked vehicle movement to provide insights including classification, count, and duration in frame, supporting **traffic flow analysis and congestion management**.

Non-invasive Methods of Calculating Blood Pressure

Aug 2021 – Apr 2022

- Collaborated with Dr. Amit Kaul on predicting blood pressure and heart rate using biomedical signals, achieving **82% accuracy** using hybrid neural networks deploying Convolutional blocks along with recurrent networks
- Utilized signal processing techniques and feature engineering techniques to enhance model performance by 5%
- Implemented and conducted comparative analysis of existing algorithms on MIMIC-II dataset, carrying **appx. 53K hospital admissions and 38K patients**, and co-authored conference paper documenting findings

Extra-Curricular

Core Training & Placement Coordinator

Aug 2021 – May 2022

- Organized training workshops for over **100 students**, enhancing soft skills and interview preparedness

Secretary & Member of College Dance Crew

Aug 2021 – May 2022

- Coordinated participation in **10+ cultural events**, overseeing **40+ members** and managing a **budget of \$3000**