

Siddharth Mehta

siddharth.mehtaid@gmail.com | github.com/Siddharthm10 | linkedin.com/in/siddharthmehtaid | +1-(716)-348-4898

Education

State University of New York <i>Buffalo, New York</i>	Aug 2024 – Jan 2026
○ M.S. Computer Science; GPA: 4/4	
○ Related coursework: Machine Learning, Deep Learning, Computer Vision, Algorithm Design, Data Intensive Computing	
National Institute of Technology <i>Hamirpur, H.P.</i>	Jul 2018 – Jun 2022
○ 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 <i>ZS Associates</i>	Jun 2022 – Jul 2024
○ 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 <i>Lakebrains Technologies</i>	May 2020 – Jul 2020
○ 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 aprx. 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	