

# SIDDHANT KANTILAL SANCHETI

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## EDUCATION

### Master of Science in Software Engineering

San Jose State University, San Jose, CA

GPA: 3.9

May 2024 (Expected)

### Bachelor of Engineering in Electronics & Telecommunications

Savitribai Phule Pune University, Pune, India

GPA: 3.8

May 2020

## EXPERIENCE

### Teaching Assistant

San Jose State University

Aug 2023 — Present

San Jose, CA

- Led the "Advancing Semantic Comprehension in LLMs" project, enhancing GPT-based models' interpretative accuracy by 18%, revolutionizing language model responsiveness.
- Collaborated in integrating LangChain and Chat Copilot into deep learning frameworks, contributing to novel AI methodologies and significant advancements in model efficiency.
- Developed a comprehensive suite of cutting-edge AI tools, focusing on deep neural networks, ML Ops, and privacy-preserving learning, recognized for innovation and practicality in AI applications.

### Deep Learning Engineer

Forsk Technologies Pvt. Ltd.

Feb 2021 — Nov 2021

Jaipur, India

- Pioneered a TensorFlow-based review system for a fashion e-commerce platform, enhancing user engagement by 15% through innovative deep learning techniques.
- Developed a real-time sentiment analysis dashboard, successfully processing over 1 million reviews, aiding 50+ clients in enhancing their services, and achieving a 9.5/10 recommendation score.
- Specialized in Deep Learning, Natural Language Processing, and efficient cloud deployment using AWS and Docker, enhancing technical proficiency and operational efficiency.

### A.I. Engineer

Pantech Prolabs Pvt. Ltd.

Aug 2020 - Jan 2021

Pune, India

- Constructed a Speech Emotion Recognition system for a research initiative, processing 10,000+ recordings with CNN, librosa, and MFCC in a team of 5.
- Achieved a state-of-the-art accuracy score of 91.3% leveraging MLPClassifier, dimensionality reduction, and sklearn package, outperforming industry average by 5%.
- Reduced feature extraction time by 60% through parallel processing and GPU acceleration, resulting in faster and more efficient analysis of large audio datasets.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, HTML5, CSS, MATLAB, ReactJS, Node.js, Express.js.

**Technologies/Tools:** Amazon Web Services (ECS, EC2, ELB), Google Cloud Platform, Kubernetes, Docker, Kafka, Tableau, MongoDB, MySQL, CI/CD, Jenkins, Git, Ansible, Agile, Elasticsearch, REST

**Frameworks:** ReactJS, Angular, Node.js, Express.js, Flask, Django, Spark, HTML5, CSS3, PHP

**AI/ML Stack:** Scikit-learn, Tensorflow, PyTorch, OpenCV, D3.js, PyCaret, Pandas, NumPy, TensorRT, Keras

## RESEARCH/ PROJECTS

### YourNextMeal

Sept 2022 — Dec 2022

- Engineered a donor-receiver Web application using Django, ReactJS, and MongoDB.
- Utilized AWS services such as Lambda functions and S3 for efficient data storage and retrieval.
- Achieved 95% uptime and 4% data loss through efficient deployment with Github and Jenkins reducing development time by 30%.

### Technosapiens FitClub

Jan 2023 — May 2023

- Designed a responsive platform using React.js and Node.js with Express.js, ensuring seamless handling of concurrent user requests.
- Prioritized data security with MongoDB; implemented encryption, authentication, and robust backup protocols.
- Utilized AWS for scalable hosting and Docker for containerization, streamlining deployment.