SIDDHANT KANTILAL SANCHETI

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EDUCATION

Master of Science in Software Engineering   **GPA: 3.9**
San Jose State University, San Jose, CA   *May 2024 (Expected)*
Bachelor of Engineering in Electronics & Telecommunications   **GPA: 3.8**
Savitribai Phule Pune University, Pune, India   *May 2020*

EXPERIENCE

Teaching Assistant   Aug 2023 — Present
San Jose State University   *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   Feb 2021 — Nov 2021
Forsk Technologies Pvt. Ltd.   *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   Aug 2020 - Jan 2021
Pantech Prolabs Pvt. Ltd.   *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

Wildlife Conservation Chatbot   Feb 2023 — May 2023

- Spearheaded the creation of an AI-powered Wildlife Conservation Chatbot using OpenAI API, achieving a 92% accuracy rate, and integrated Detectron's Instant Segmentation for 95% accurate real-time animal species detection.
- Enhanced user engagement with detailed data visualizations on over 100 species across 50 regions, garnering 95% positive feedback for its informative and interactive design.

AI-based Movie Analysis   June 2020 — Oct 2020

- Led a team in developing an innovative AI application for movie genre prediction and violence estimation, utilizing OpenCV and Mask R-CNN to analyze over 2,000 movie scenes for accurate semantic segmentation.
- Achieved a 90.7% accuracy in genre identification and a 0.78 mIOU in violence metrics, significantly improving film indexing and recommendation systems through advanced computer vision techniques.