Sayali Kandarkar

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EDUCATION

CARNEGIE MELLON UNIVERSITY	Pittsburgh, PA
Master of Science in Artificial Intelligence and Innovation, GPA: 3.7/4.0	Aug 2022 - May 2024
• Relevant Courses: Computer Systems, Coding Bootcamp, ML in Production, AI in Futur	
Machine Learning, Large Language Models, Advanced Natural Language Processing, M	
• Graduate Teaching Assistant: AI for Medicine, Multilingual Natural Language Processi	0
K.J. SOMAIYA COLLEGE OF ENGINEERING, MUMBAI UNIVERSITY	Mumbai, India
Bachelor of Engineering in Information Technology, GPA: 8.2/10.0	Aug 2013 - Jul 2017
 Relevant Courses: Big Data Analysis, Distributed Systems, Algorithms and Data Structu WORK EXPERIENCE 	vres, Computer Architecture
SIGNIFY R&D	Burlington, MA
Machine Learning Research Intern	Jun 2023 – Aug 2023
 Implemented a customer review project using search embedding models like Word2Vec embeddings using CNN, LSTM architecture for supervised learning to categorize review customer dissatisfaction, reducing manual analysis time by 90% 	vs and identify top reasons for
 Engineered an advanced Image Signature and Logo Detection system with a 93% accura 	
such as ResNet and VGG, to attain reduction in brand counterfeits and enhancing brand	
STANFORD UNIVERSITY	Pittsburgh, PA
Research Assistant	Jan 2023 – Aug 2023
 Researched mental health disorder diagnosis using r-FMRI data under the guidance of D Employed cutting-edge deep neural network methods including CNNs, Encoder-Decode achieving a notable 87% accuracy through CNNs – (Research Paper) 	-
J.P. MORGAN CHASE & CO.	Mumbai, India
Senior Software Engineer - III	Aug 2017 - Jun 2022
• Developed a performance platform using microservices architecture with Kubernetes clu	
Spring Boot microservices for complex calculations; enabled scalability and optimized p	
caching and optimized queries; decommissioned the vendor product by saving the firm \$	
• Modernized architecture by Introduction of CICD pipeline (using JULES), Cassandra Re of a centralized RESTful microservices based architecture, thus increasing uptime by 30	%
 Spearheaded Agile Transformation for 100+ members global team. Prioritized Project de and coordinating with engineering lead project manager; decreasing project delivery time 	e by 23%
 Led cloud adoption project; deployed it to AWS; implemented a Spring-Boot API servic cloud system and AWS Virtual private cloud for seamless data transfer, thus, increasing 	
 Created an automated testing suite for a web application using Selenium and Python, and with Kubernetes, thus, reducing manual testing efforts by 80%, saving approximately 20 	
 Awarded AWM technology award three years in a row from 2017-2019 for commitment 	
Promoted twice within four years, progressing from Software Engineer to Senior Software	re Engineer, and finally to AVP
PROJECTS	
COVID-19 Twitter Assistance Project – (Github)	
 Engineered a chatbot to efficiently gather tweets containing critical COVID-19 resources 	
 Seamlessly integrated the bot with an AWS Lambda service to perform data preprocessing 	• • • • •
• Interviewed by Forbes India for assisting over 10,000 Indian citizens by providing timely	y and vital assistance
Full-Stack Movie Recommendation System – (Project Video)	
• Built a movie recommendation system via Collaborative Filtering and SVD within Flask	
• Containerized through Docker for seamless scalability, performed real-time monitoring to CLAudioLM: Text-Guided Music Generation using Waveform Domain - (Research Pa	
• Created a cutting-edge generative multimodal AI model for music, drawing inspiration f	rom Google's MusicLM
• Enhanced the joint embedding component by transitioning from MuLan to CLAP, and o EnCodec replacing SoundStream, using distributed training and GPU performance optim	
 Pioneered the development of a novel dataset (CapsGPT), leveraging ChatGPT's musical 	
SKILLS	1

Machine Learning: PyTorch, TensorFlow, Scikit-learn, Pandas, Numpy, Spark, PySpark, Keras, SpaCy, Huggingface, MLOps Development: Flask, AWS, Git, Kafka, Pentaho, Tableau, Jenkins, Drools, Grafana, CI/CD, Docker, Selenium