SAURABH BHAUSAHEB ZINJAD

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EDUCATION

Arizona State University, Tempe, USA August 2023 - May 2025
Masters of Science in Computer Science (GPA: 4/4)

Relevant Courses: *Social Media Mining, Knowledge Representation and Reasoning Algorithms, Statistical Machine Learning*

Pune Institute of Computer Technology(PICT), Savitribai Phule Pune University, India July 2015 - June 2019
Bachelor of Engineering (GPA: 8.53/10)

Relevant Courses: *DSA, OOP, OS, System Programming, Computer Networks, Information Theory, Artificial Intelligence, Machine learning, Digital Video and Image Processing*

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C#, C++, SQL, R, Java, Shell Scripting
Data Science: Databricks, PySpark, TensorFlow, PyTorch, MXNet, OpenCV, Scikit Learn, Pandas, Matplotlib, Keras
Cloud and DevOps: Azure, AWS, Docker, Kubernetes, MLFlow, Jupyter Notebook, Git
Full-Stack Tech: Angular, React, .Net Core, NodeJs, Django, Flask, FastAPI, MongoDB, SQL Server, MySQL, Postman
Certifications: **Deep Learning Specialization**, **MLOps for AI Engineers and Data Scientists**, **Microsoft Azure Fundar**

WORK EXPERIENCE

Tiger Analytics Bangalore, India
Senior Machine Learning Engineer June 2022 - July 2023

- Reviewed transactions and determined pass or fail
- Adhered to ASU Financial Services Policy and Procedures
- Handled cash, checks, and credit cards
- Adhered to computer usage policies and codes of conduct
- Completed assigned duties in a timely manner
- Maintained a professional work environment
- Provided excellent customer service
- Performed other specified duties
- Represented department/program professionally

Winjit Technologies Pune, India
Software Engineer January 2020 - June 2022

- Engineered RESTful APIs Architecture and Distributed services
- Designed low-latency responsive UI/UX application features with high-quality web architecture
- Managed and optimized large-scale Databases
- Initiated and Designed a standardized solution for dynamic forms generation with customizable CSS capabilities feature
- Led and collaborated with a cross-functional team

Automation Teknix Pune, India
Deep Learning Engineer September 2019 - January 2020

- Devised a Lightweight Object Recognition Engine with a low computational cost by leveraging an SSD algorithm with MobilenetV2 architecture
- Conducted thorough Initial research, prototyped neural network flow, and conceptualized POC, training, and monitoring of models

PROJECTS

Streamlining Job Applications with LLM Automation Pipeline Oct 2023 - Dec 2023

- Developed a Python library to optimize the job application workflow that generates curated resumes and personalized cover letters tailored to specific job roles
- Utilized advanced techniques including Prompt Engineering, Web Scraping, and integration of various Large Language Models to enhance the effectiveness of the application

Search Engine for All File Types - Sunhack Hackathon - Meta & Amazon Sponsored 3 Nov 2023 - 5 Nov 2023

- Developed Python FAST API and Angular development for Big Data Awards
- Converted and stored every file type data as vector embeddings for low-latency search capabilities
- Utilized Machine Learning techniques such as BERT, OCR, ResNet50, and Image Captioning to parse Image features

· Contributed to Elasticsearch implementation for blazing-fast search responses

GenAI's Capabilities and Boundaries Exploration - Prompt Engineering Hackathon for Humanities 13 Oct 2023 - 15 Oct 2023

· Crafted an AI persona to explore LLM's subtle contextual understanding and create innovative collaborations between humans and machines

· Addressed limitations in narrative flow, simplicity, emotional depth, and hallucinations through innovative approaches

· Demonstrated creative mindset and ability to navigate complex tasks and adapt to evolving requirements during the hackathon

Forest Fire Detection using IoT Sensor Data September 2021 - January 2022

· Devised a TabNet Classifier Model having 98.7% accuracy in detecting a forest fire through IoT sensor data

· Deployed the model on AWS and edge devices using technologies TinyML, Docker, Redis, and celery

· Performed Model Exploration, Analysis, and Optimization

Stock Market Analysis December 2018 - February 2019

· Conducted in-depth Exploratory Data Analysis (EDA) and utilized data visualization techniques for comprehensive stock market analysis

· Implemented a range of statistical and ML models on diverse time-series stocks to extract insights and predictions

· Improved performance by 27% on clustering and diversification analysis

Autonomous Surveillance Monitoring System February 2019 - June 2019

· Built a surveillance engine to detect and alert about suspicious behaviors on campus by constructing a computer vision pipeline

· Utilized OpenCV, MediaPipe, TensorFlow, MLFlow, and Flask

· Deployed the system on college premises

Speech Emotion Recognition November 2018 - February 2019

· Researched and optimized existing emotion detection approaches by combining CNN and LSTM networks

· Discovered emotion-affecting attributes in voice by analyzing audio signal features

· Compressed audio data using an Autoencoder technique to boost model accuracy

· Used tools like PyTorch, Librosa, puAudioAnalysis, and Tensorboard

ACHIEVEMENTS

1st runner-up in Prompt Engineering Hackathon 2023 for Humanities

· Best Data Awards in Major League Hacking sponsored hackathon SunHacks 2023

· Received the 'Extra Miller - 2022' award at Tiger Analysis for outstanding performance

· President of Machine Learning Club: Led a team of 20 people and was awarded 'Best Project of the Year 2019'

· Finalist in E-yantra Robotics Competition 2018 - IITB

· Dance Section's Head of PICT Art Circle: Best dance choreography for Winning 'Firodiya theater competition 2019'

· Performed in multiple award-winning state-level drama competitions and received the best-organized team prize thrice

· An active member of the NSS (National Community Service Group in PICT) in 2016