SAURABH BHAUSAHEB ZINJAD

+14809135544 saurabhzinjad@asu.edu github.com/Ztrimus linkedin.com/in/saurabhzinjad

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

- Developed Interactive Dashboards, Constraint-based ML Models, Web App, Data & CI/CD pipelines, and Comprehensive Documentation for MSP Value Optimization in Petcare sector with a team of 8 analysts.
- Created the MLCORE product (end-to-end MLOps platform) by implementing research ideas, prototyping, backend API Implementation, and integrating it with numerous cloud services, attracting four significant clients.

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, reducing development time by 8x; Led and collaborated with a cross-functional team of 12 members.

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

- Devised a Lightweight Object Recognition Engine with low computational cost by leveraging an SSD algorithm with MobilenetV2 architecture, decreasing survey error by 22%.
- Conducted research, prototyped neural network flow, conceptualized POC, training, and monitoring of models resulting in a 7% increase in accuracy and 2x reduced inference time.

PROJECTS

Search Engine for All file types - Sunhack Hackathon - Meta & Amazon Sponsored 3 Nov 2023 - 5 Nov 2023

- Converted and stored every file type data as vector embeddings, ensuring 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, with millisecond response times.
- Led Python FAST API and angular development, providing efficient data access and retrieval.

Prompt Engineering Hackathon for Humanities 13 Oct 2023 - 15 Oct 2023

- Led SouL LLM Brews to 1st runner-up position in the "Prompt Engineering Hackathon for Humanities."
- Demonstrated a creative mindset in problem-solving, going beyond technical constraints.
- Crafted an AI persona, LLM Brews, to explore LLM's capabilities and create innovative collaborations between humans and machines.
- Spearheaded the exploration of AI storytelling tools, including ChatGPT, Bing Chat, Google Bard, Jasper.ai, Writesonic, etc.
- Conducted whiteboard sessions to brainstorm and strategize the use of LLM for extended storytelling.
- Developed Pro Tips for Prompting, optimizing LLM parameters for creativity, and experimenting with different ChatBots for diverse responses.
- Addressed limitations in narrative flow, simplicity, emotional depth, and hallucinations through innovative approaches.

- Collaborated with a team of AI personas, including an insightful Critic and a keen Book Reader, to enhance focused and productive discussions.
- Explored GenAI models, such as Runway, Midjourney, and DALL-E Open Ai, to add nuanced emotions and depth to the narrative.
- Presented ideas and work in a humorous manner, creating a compelling story for the protagonist character, Gunther, using AI.
- Successfully identified and addressed challenges in LLM's storytelling capabilities.
- Demonstrated the ability to navigate complex tasks and adapt to evolving requirements during the 17-hour hackathon.

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

- Devised a TabNet Classifier Model having 98.7% accuracy in detecting forest fire through IoT sensor data, deployed on AWS and edge devices 'Silvanet Wildfire Sensors' using technologies TinyML, Docker, Redis, and celery.
- Examined and utilized performance metrics (Recall, F2 score, sensitivity, specificity, etc.) to reduce high type II error.
- Performed Model Exploration, Analysis, and Optimization.

ACHIEVEMENTS

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

- Received the 'Extra Miller - 2021' award at Winjit Technologies for outstanding performance.
- President of Machine Learning Club: Led a team of 20 people in a project and was awarded "Best Project of the Year."
- 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.