

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 Fundamentals

WORK EXPERIENCE

Tiger Analytics

Bangalore, India

Senior Machine Learning Engineer

June 2022 - July 2023

- Spearheaded development of 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.
- Developed MLCORE product (end-to-end MLOps platform) by implementing research ideas, organizing through prototyping, backend API Implementation and Integrating it with numerous cloud services, attracting an additional four significant clients.

Winjit Technologies

Pune, India

Software Engineer

January 2020 - June 2022

- Engineered 10+ RESTful APIs Architecture and Distributed services; Designed 30+ 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, which reduces development time by 8x; Led and collaborated with a 12 member 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, which decreased survey error by 22%.
- Conducted thorough Initial research; prototyped neural network flow; conceptualized POC, training, and monitoring of models. This resulted in a 7% increase in accuracy and reduced inference time by 2x.

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.
- Used 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.
- Examine and utilize many performance metrics (Recall, F2 score, sensitivity, specificity. etc.) to reduce high type II error.
- Performed Model Exploration, Analysis, and Optimization.