

# 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:** Data Structure and Algorithm, Object Oriented Programming, Operating System, System Programming, Computer Networks, Information Theory, Artificial Intelligence, Machine learning, Digital Video and Image Processing

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, HTML, CSS , Python, C#, C++, SQL, R, Java, Shell Scripting

**Full-Stack Tech:** Angular, React, Vue.js, NodeJs, JQuery, Ajax, Bootstrap, .Net Core, Django, Flask, FastAPI, MongoDB, SQL S

**Data Science:** Databricks, PySpark, TensorFlow, PyTorch, MXNet, OpenCV, Scikit Learn, Pandas, Matplotlib, Keras

**Cloud and DevOps:** Azure, AWS, Docker, Kubernetes, MLFlow, Jupyter Notebook, Git

**Certifications:** [Front-End Web UI Frameworks and Tools](#), [Server-side Backend Development](#),

[Microsoft Azure Fundamentals](#), [Deep Learning Specialization](#),

[MLOps for AI Engineers and Data Scientists](#),

## WORK EXPERIENCE

### Tiger Analytics

Bangalore, India

Senior Machine Learning Engineer

June 2022 - July 2023

- Spearheaded Development of Web App, Interactive Dashboards, Data & CI/CD pipelines Constraint-based ML Models and Comprehensive Documentation for MSP Value Optimization in Petcare sector with a team of 8 analysts.
- Developed entire end-to-end Web application for MLOps platform by implementing research ideas, organizing through 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

- Designed 30+ low-latency responsive UI/UX components, workflows, CRUD operations, permission management and application features with high-quality web architecture;
- Engineered 10+ RESTful APIs Architecture and Distributed services; Managed and optimized large-scale Databases.
- Devised custom angular library for standardized solution for dynamic forms generation, reducing 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, decreasing survey error by 22%.
- Conducted Initial research; prototyped neural network flow; conceptualized POC, training, and monitoring of models resulting in a 7% increase in accuracy and a 2x reduction in inference time.

## PROJECTS

### [Search Engine for All file types - Sunhack Hackathon - Meta & Amazon Sponsored](#)

Nov 2023 - Nov 2023

- **Big Data Awards** in Python FAST API and angular web development, providing efficient data access and retrieval.
- 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.

### [GenAI's Capabilities and Boundaries Exploration - Prompt Engineering Hackathon](#)

Oct 2023 - Oct 2023

- **1st runner up prize** in crafted 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 hackathon.
- Shown the ability to navigate complex tasks and adapt to evolving requirements during the 17-hour hackathon.

### [Streamlining Job Applications with LLM Automation Pipeline - GitHub - Presentation](#)

Oct 2023 - Dec 2023

- Developed 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.

#### Forest Fire Detection using IoT Sensor Data

Sep 2021 - Jan 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.

### ACHIEVEMENTS

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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.