

# 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

- Led 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, 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.
- Designed standardized solution for dynamic forms generation with customizable CSS capabilities feature, reducing development time by 8x; Led and collaborated with 12 member cross-functional team.

### IMATMI

Robbinsville, New Jersey (Remote)

Research Intern

March 2019 - August 2019

- Conducted research and developed ML and statistical models to design analytical tools and streamline HR processes, optimizing talent management systems for increased efficiency.
- Created 'goals and action plan generation' tool for employees, facilitating professional growth.
- Implemented automated system to identify 'best-fit employees' for upcoming projects, improving project outcomes and resource allocation for managers.

## PROJECTS

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

Oct 2023 - Dec 2023

- Developed Python library to optimize 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 application effectiveness.

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

3 Nov 2023 - 5 Nov 2023

- Received Big Data Awards in Python FAST API and angular 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.

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

13 Oct 2023 - 15 Oct 2023

- Secured 1st runner up prize in crafted AI persona, exploring LLM's subtle contextual understanding and creating 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.

### 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 to reduce high type II error.
- 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 of CCTV footage data processing, face detection, poses & action recognition using OpenCV, MediaPipe, Tensorflow, MLFlow, and Flask.
- Deployed system on college premises.

### Speech Emotion Recognition

November 2018 - February 2019

- 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 the accuracy of the speech model by 31%.

## ACHIEVEMENTS

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- 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 in a project 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.