

# Saurabh Bhausahab Zinjad

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## EDUCATION

- Masters of Science in Computer Science** August 2023 - May 2025  
Arizona State University, Tempe, USA 4/4  
Coursework: Social Media Mining, Knowledge Representation and Reasoning Algorithms, Statistical Machine Learning.
- Bachelor of Engineering** July 2015 – June 2019  
Pune Institute of Computer Technology(PICT), Savitribai Phule Pune University, India 8.53/10  
Coursework: DSA, OOP, OS, System Programming, Computer Networks, Information Theory, AI, ML, Digital 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 Technologies:** Angular, React, .Net Core, NodeJs, Django, Flask, FastAPI, MongoDB, SQL Server, MySQL, Postman

## WORK EXPERIENCE

- Senior Machine Learning Engineer, Tiger Analytics, Bangalore, India** June 2022 - July 2023
- Spearheaded development of Data & CI/CD pipelines, Interactive Dashboards, Constraint-based ML Models, Web App, and Comprehensive Documentation for MSP Value Optimization in Petcare sector with a team of 8 analysts. **(Team Leadership)**
  - Developed *MLCORE* product (end-to-end MLOps platform) by implementing research ideas, organizing through prototyping, and Integrating it with numerous cloud services, attracting an additional four significant clients. **(Interpersonal Skills)**
- Software Engineer, Winjit Technologies, Pune, India** 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. **(Systems Design)**
  - 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. **(Idea Generation)**
- Deep Learning Engineer, Automation Teknix, Pune, India** 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%. **(Problem Identification)**
  - 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. **(Experiment Design)**

## PROJECT EXPERIENCE

- [Search Engine for All file types](#)** - SunHacks Hackathon - Meta & Amazon Sponsored Nov 2023 – Nov 2023
- **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, with millisecond response times.
- [GenAI's Capabilities and Boundaries Exploration](#)** - Prompt Engineering Hackathon for Humanities 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.
- [Forest Fire Detection using IoT Sensor Data](#)** Omdena, New York ([GitHub link](#)) 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*. **(Volunteer work)**
  - Examine and utilize many performance metrics (*Recall, F2 score, sensitivity, specificity*. etc.) to reduce high type II error.
  - Performed Model Exploration, Analysis, and Optimization. **(Client Advisory)**

## CERTIFICATIONS/ADDITIONAL COURSES

- [Deep Learning Specialization](#) - DeepLearning.AI, Coursera Inc.
- [MLOps for AI Engineers and Data Scientists](#) - Omdena Inc.
- [Microsoft Azure Fundamentals](#) - Udemy.
- [Server-side Backend Development](#) - The Hong Kong University of Science and Technology.
- [Front-End Web UI Frameworks and Tools](#) - The Hong Kong University of Science and Technology.