

Sonu Jha

<https://www.linkedin.com/in/sonujha092/>
<https://github.com/skj092>

Email : sonujha092@gmail.com

Mobile : +91 8999826751

EXPERIENCE

- **Netcore Cloud** Mumbai, India
AI R&D Engineer July 2024 - Present
 - **Co-Marketer:** Working on an AI-powered digital co-marketing platform to facilitate collaborative marketing efforts between brands.
 - **Digital Twins:** Developed a digital twin system to simulate and optimize real-world processes for improved decision-making.
- **Signzy Technology** Bangalore, India
AI Engineer Dec 2022 - July 2024
 - **Aadhaar Masker:** Build an **Image Segmentation** model using UNet with Resnet34 backbone to mask Indian aadhaar card. Used FastAI framework to train the model and **Nvidia Triton Inference Server** for deployment of containerized **FastAPI** layer.
 - **Forgery Detection:** Using deep learning and ELA to classify whether an identity document is forged. Used PyTorch, fastai for training, FastAPI for API layer and deployed on Nvidia Triton Server.
 - **Signature Verification:** Build a Signature Verification model using **Siamese Architecture** and **Resnet18** backbone to verify pair of signature. Used PyTorch framework to training and FastAPI for API layer.
 - **Generative AI:** Engineered AI-driven **document processing** solutions using Generative AI, Langchain, and computer vision techniques. Developed models for salary slip extraction, signature verification, and **PAN extraction**, achieving up to **97%** accuracy. Implemented with **PyTorch**, FastAPI, and deployed on **AWS**.
- **Accenture Solution** Mumbai, India
Associate Web Developer Apr 2019 - Dec 2022
 - **Build Websites:** Design and Develop a user-friendly website and fix the existing one using SAS based tool - Adobe Experience Manager

PROJECTS

- **LLM - Detect AI Generated Text:** Fine-tuning LLM like **Mistral-7B** and **Deberta-v3** to build a text classifier and check whether an essay is generated by AI. Currently the accuracy of the Mistral-7b is 85% and Deberta Accuracy is 80%.

EDUCATION

- **Mumbai University** Mumbai, India
Bachelor of Science in Mathematics; Score: 80% Aug. 2015 – Dec. 2018

PROGRAMMING SKILLS

- **Languages and Frameworks:** Python, FastAPI, Falcon, NodeJS, Javascript
- **Machine Learning:** Image Classification, Object Detection, Image Segmentation, NLP, NLU, PyTorch, Keras, YOLO, Detectron, FastAI
- **DevOps Tools:** : Linux, Nginx, Docker, CI/CD, Grafana, Kibana

ACHIEVEMENT

- **Kaggle.com:** Secured a **bronze medal** in the UBC Ovarian Cancer Subtype Classification and Outlier Detection (UBC-OCEAN) competition.
- **Signzy Technology:** Awarded for improving accuracy of AI services by integrating Generative AI.
- **Guest Lecture:** I was invited as a **guest lecturer** to present on “Application of Mathematics in Machine Learning” at R.D National College Bandra, Mumbai.
- **Mountaineering:** Completed Basic Mountaineering Course from National Institute of Mountaineering and Adventure Sports.