LOUKIK NAIK

✉ loukiknaik@gmail.com | in Linkedin | ○ Github | ☎ +1 (858) 241 9592 | **San Diego, CA**

Education

MS in CSE at **University of California, San Diego**	Sept 2023 - Dec 2024	GPA: 3.95/4.0
BE in Computer Engineering at **Slrtce, Mumbai University**	Aug 2019 - May 2023	GPA: 3.88/4.0

Relevant Coursework: Design and Analysis of Algorithms, Unsupervised Learning, Software Engineering, Natural Language Processing, Probability and Reasoning, Data Analysis, Graduate Network Systems

Technical Skills

Languages:	C++, Python, Rust, Go, Java, Bash
Tools:	Git, JUnit, Postman, VS Code, Jupyter Notebook, Kaggle
Databases:	MySQL, Postgres, MSSQL, Firebase Firestore (NoSQL)
Frameworks	Tensorflow, Pytorch, Keras, JQuery, Django, Flask, Next, Express, React

Experience

AI Developer Intern — Feb 2023 - April 2023
Lab Systems(l) Pvt. Ltd. — *Mumbai, Maharashtra*

- Developed video forensics tool for various law enforcement agencies to analyse CCTV footage efficiently.
- Researched different algorithms and techniques for object and text recognition to improve the performance of the software.
- Leveraged Python libraries like **Pytesseract, Easyocr, Yolo, Mediapipe** for object and text recognition.

Software Engineer Intern — Jul 2022 - Aug 2022
Hexaview Technologies Pvt. Ltd. — *Pune, Maharashtra*

- Collaborated with senior developers to design and implement Android application for client projects, enhancing user experience and functionality.
- Wrote unit and integration tests using **JUnit and Espresso** improving code coverage by 20%.

Projects

Zemo: A Video Interview Platform — Paper | Repo

- Built a web-based video conferencing platform with features such as whiteboard collaboration, real-time video and audio streaming, and a text editor.
- Engineered Core Technologies - **Socket.io, WebRTC, Nodejs, HTML, CSS** for full stack development.

Prototype Selection Technique For 1-Nearest Neighbour — Paper

- Compared and proposed different methods for prototype selection on huge datasets to summarize the data such that 1-NN model yields optimal test results.
- Achieved identical **test accuracy of 96.7%** using only about 11% of MNIST dataset after prototyping.

PPG Signal Based Hypertension Prediction — Paper

- Developed robust ETL pipeline to process the MIMIC-III dataset ensuring high data quality and integrity for downstream analytics.
- Achieved a test **accuracy of 74%** and a **sensitivity of 91%** on the MIMIC-III dataset.

Tesla Website Front End Clone — Live | Repo

- Developed a **React**-based front end clone of the Tesla website and deployed it to **GitHub** Pages.

Extra-Curricular Activities

Codeyantra, Slrtce (*Competitive Programming Lead*) — Aug 2021 - Jul 2022

- Headed coding competitions and seminars online and in person, to encourage peers to learn coding.
- Taught **C++ Standard Template Library** and other technical topics through Youtube and Zoom.

Achievements

426th Rank	Meta Hacker Cup Round 1
1067th Rank	Google Kickstart 2022 Round B
314th Rank	ICPC Gwalior-Pune 2020 Regional

Certificates

Neural Networks and Deep Learning	Coursera
Deep Learning using TF and Keras	IIT Kanpur
SQL (Intermediate)	HackerRank