

# LOUKIK NAIK

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## Education

MS in CSE at <b>University of California, San Diego</b>	Sept 2023 - Dec 2024	GPA: 3.95/4.0
BE in Computer Engineering at <b>Slrtce, Mumbai University</b>	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

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

## Experience

<b>AI Developer Intern</b> Lab Systems(l) Pvt. Ltd.	Feb 2023 - April 2023 <i>Mumbai, Maharashtra</i>
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- 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.

<b>Software Engineer Intern</b> Hexaview Technologies Pvt. Ltd.	Jul 2022 - Aug 2022 <i>Pune, Maharashtra</i>
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- 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

### Surfstore: A Distributed File Storage System

- Built a **Horizontally Scalable** File Storage System in **Go**, storing data across multiple block and metadata servers.
- Implemented **Raft consensus** algorithm to sync changes across multiple metadata servers.

### 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

## Certificates

426 <sup>th</sup> Rank	<a href="#">Meta Hacker Cup Round 1</a>	<a href="#">Neural Networks and Deep Learning</a>	Coursera
1067 <sup>th</sup> Rank	<a href="#">Google Kickstart 2022 Round B</a>	<a href="#">Deep Learning using TF and Keras</a>	IIT Kanpur
314 <sup>th</sup> Rank	<a href="#">ICPC Gwalior-Pune 2020 Regional</a>	<a href="#">SQL (Intermediate)</a>	HackerRank