

LOUKIK NAIK

✉ loukiknaik@gmail.com | [in](#) [Linkedin](#) | [📞](#) (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: Algorithms, Unsupervised Learning, NLP, Probability, Graduate Network Systems

Technical Skills

Languages:	C++, Python, Rust, Go, Java, Bash
Databases:	MySQL, Postgres, MSSQL, Firebase Firestore (NoSQL)
Frameworks	Tensorflow, Pytorch, Keras, JQuery, Django, Flask, Next, Express, React

Experience

ML Intern (Computer Vision) Plainsight Technologies Inc.	June 2024 - Present <i>San Diego, California</i>
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- Developed an ML pipeline for evaluating the performance of filters on incoming video streams.
- Utilized **Google Cloud Platform** and **Google Kubernetes Engine** to orchestrate a Kubeflow pipeline, automatically triggered by data ingestion into a GCS bucket.

AI Developer Intern 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.

Software Engineer Intern 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.

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

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