ATHARVA SUNIL KSHIRSAGAR

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EDUCATION

- University of California, Irvine (UCI) | Irvine, CA — September 2022 – December 2023
  Master of Computer Science (MCS), GPA: 3.84
- SIES Graduate School of Technology (SIESGST) | Navi Mumbai, India — July 2018 – May 2022
  Bachelor of Engineering, Computer Engineering (B.E.), CGPA: 3.84

Courses: Data Structures & Algorithms, DBMS, Machine Learning, Deep Learning, Parallel and Distributed Computing

SKILLS

Languages: Python (Pandas, Numpy, Searborn, Scikit-Learn, Matplotlib), Java, HTML, CSS, C/C++, JavaScript, SQL
Frameworks & Tools: NodeJS, Express, React JS, Streamlit, Quill JS, LLM, OpenAI, Gradio, LangChain, Tensorflow, PyTorch
Database & DevOps: MySQL, PostgreSQL, Cassandra, MongoDB, AstraDB, AWS(EC2, SageMaker), Docker, Heroku, Apache Spark

EXPERIENCE

SiriusMindshare Labs LLC — San Jose, CA
Software Engineer — *February 2023 - Present*

- Developed and deployed **2** new REST APIs for Generative AI models, boosting backend functionality.
- Created the **Generative AI** models and integrated additional features into the backend, expanding the product's capabilities.

Software Engineer Intern – Machine Learning — *June 2023 – December 2023*

- Crafted an **OpenAI Curie** chatbot, boosting email subject line engagement by **50%**, and designed a **ReactJS UI** for it.
- Integrated models via **REST APIs** into **Python** backend, cutting processing time by **30%** for better performance.
- Contributed to a **25%** increase in product efficiency and usability by implementing **ML models** and introducing new features.
- Ensured seamless system operation by resolving over **15+** backend bugs, achieving a substantial **40%** reduction in errors.

Reliance Jio Limited — Mumbai, India
Software Engineer Intern — *June 2021 – September 2021*

- Led a team of **3** interns in enhancing Jio Coverage Platform with DevOps and QA collaboration.
- Minimized integration issues by **20%** by streamlining JCP application testing and ensuring efficient system operation.
- Streamlined the validation process of Excel files on JCP, saving approximately **10 hours** per week.
- Implemented scripts in Python to automate the process of extraction of data from reports reducing processing time by **30%**.

PROJECTS

DocLab – AI Powered Document Editor — June 2023

- Designed DocLab, an **AI document editor** saving users **3 hours** with advanced text formatting features.
- Leveraged **React JS** and **Quill JS** for **30%** more efficient rich text editing and elevated user engagement.
- Created fast and seamless **API** routes with **Flask** for AI model integration with the frontend, averaging **100ms** response time.
- Integrated AI into DocLab's frontend using **JavaScript** and **React**, ensuring fast page load times **(< 2 seconds).**
- Deployed the **Flask**-based AI model on **AWS EC2** ensuring scalable and reliable access to DocLab's AI-powered features.

CaptionCraft – Image Caption Generator — February 2023

- Built a **React JS** and **Flask** full-stack web app, boosting user engagement by **30%** via intuitive image captioning.
- Attained **92%** validation accuracy: ResNet outperformed VGG16 and Xception, demonstrating effective model selection.
- Employed **JavaScript** for a seamless API, reducing data transfer latency by **50%** and enhancing frontend-backend communication.
- Boosted UX: **40%** more interactions, **25%** lower bounce rate as users accessed direct captions.

Multiple Stream Data Processing to guide drivers in a real-time environment — May 2022

- Launched web app for **1000+** users, displaying real-time model outputs for driver guidance using **JS, ReactJS, HTML, CSS**.
- Led a team of **3** to slash data processing by **40%**, enabling real-time integration with efficient lane tracking and image processing.
- Drove responsive design, boosting user engagement by **30%**, ensuring seamless front-to-back integration for real-time data.

Brain Stroke Prediction Portal — June 2021

- Designed user-friendly **HTML/CSS** frontend, potentially boosting engagement by **25%** through intuitive and appealing design.
- Streamlined **Flask** backend to optimize model retrieval, reducing processing time by **30%** through an efficient data pipeline.
- Integrated JavaScript for real-time data fetching and model predictions, improving UX and cutting processing time by **30%**.

CareLink – Hospital Management Website — September 2020

- Reduced data retrieval times by **20%** with **PostgreSQL** database for efficient entity management.
- Enhanced user engagement by **30%** through cross-functional collaboration on an HTML/CSS/JS system.