

Aditya Sahu

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EDUCATION

San Jose State University

Master of Science in Artificial Intelligence

San Jose, USA

Aug 2022 – May 2024

Siddaganga Institute Of Technology

Bachelor of Engineering in Computer Science

Tumkur, India

Aug 2016 – Jul 2020

SKILLS SUMMARY

Languages: Python, Java, C++, C, HTML, CSS, SQL, R

Frameworks/Libraries: Pytorch, Tensorflow, Keras, Spacy, Matplotlib, Numpy, Pandas, Scipy, Scikit Learn, OpenCV

Database/Tools: MongoDB, MySQL, Tableau, Power BI, Jenkins, Docker, Git, AWS, GCP, Jira

AI/ML Stack: Predictive & Descriptive Analytics, Statistics, Computer Vision, NLP, MLOps, Data Engineering, ETL

Soft Skills: Leadership, Work ethics, Adaptability, Perseverance, Time Management

EXPERIENCES

Machine Learning Intern, *Nuvoton Technology* -San Jose, CA

May 2023 – Present

- Implementing optimized audio processing techniques, with a focus on leveraging **TensorFlow lite and micro**.
- Developing C++ scripts aimed at converting Keras models enabling deployment on resource-constrained devices.

Software Engineer, *Netcracker Technology* -India

Nov 2020 – Jul 2022

- Led team in implementing **Discrepancy reports**, reducing billing errors by 70% and improving data synchronization.
- Implemented automation scripts to transform data to XML, utilizing **Java and XML** on Legacy tool.
- Developed validation scripts using **complex PL/SQL** queries, achieving 95% accuracy during cloud imports.

Software Engineer Trainee, *Kpro Solutions* -India

Aug 2020 – Oct 2020

- Developed **Python APIs** for data transformation, including extraction and conversion of data into various file formats.
- Constructed **Tableau** dashboards, enabling insightful analysis of client data and improving decision-making by 30%.

Machine Learning Intern, *Gnani.ai* -India

Feb 2020 – Apr 2020

- Worked on the **Rasa** framework for constructing AI-based chatbot in the Natural Language Processing Team.
- Scrapped **conversational data**, processed it and built word vector models on top of it.

Summer Intern, *Indian Institute of Technology, Varanasi* -India

Jun 2019 – Jul 2019

- Worked on Dual form of **Support Vector Machines** (SVM) algorithm from scratch using **CVXOPT** library.
- Collaborated with Research Scholars to implement various SVM research papers on imbalanced datasets.

PROJECTS

Ultra-Fast-Lane-Detection | *PyTorch*

Jan 2023 – Apr 2023

- Developed and implemented an Ultra-Fast-Lane-Detection model using PyTorch, enabling real-time and precise lane detection for autonomous driving applications.

Canvas Bot | *Python, Rasa, Slack*

Oct 2022 – Dec 2022

- Built NLP based Slack integrated Canvas Help bot to assist students queries about classes, announcements, grades, deadlines etc using **Rasa Framework**. It scrapped data real-time using **Beautiful Soap** from Canvas.

Emoticon- Music Recommendation App | *Python, TensorFlow, Android Studio*

Oct 2018 – Mar 2019

- Developed an Android application to recognize real-time emotion of users using selfies and recommend songs by training CNN algorithm on Kaggle **FER-2013 data-set**.

PUBLICATION

Sahu A., Kumar A., Parekh A. (2021) "Emoticon: Toward the Simulation of Emotion Using Android Music Application" vol 53. Springer, Singapore. ([link](#))

LEADERSHIP / EXTRACURRICULAR

Machine Learning Club @SJSU | *Project Member*

Aug 2022 – Present

- Organizing numerous technical events including workshops, webinars and collaborating to build projects.