

# 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, Numpy, Pandas, Scikit Learn, HuggingFace, OpenCV

**Database/Tools:** MongoDB, MySQL, Tableau, Power BI, Spark, Databricks, Docker, Git, AWS, GCP, Jira, MLFlow

**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 Corporation America* - San Jose, CA

May 2023 – Present

- Single-handedly implemented enhancements for Speech-To-Text, Speech Command detection and Event Classification.
- Designed and implemented machine learning algorithms, enhancing the efficiency and accuracy of speech AI systems.
- Demonstrated model optimization proficiency and reducing size **upto 4x**, enabling **resource-constrained** deployment.

### Software Engineer, *Netcracker Technology* - India

Nov 2020 – Jul 2022

- Developed predictive models using machine learning techniques, resulting in a **8%** improvement in accuracy.
- Led team in implementing **Discrepancy reports**, reducing billing errors by **70%** and improving data synchronization.
- Applied data science techniques to develop automation scripts using Python, streamlining data processing workflows.
- Developed validation scripts using **complex PL/SQL** queries, achieving 95% accuracy during cloud imports.

### Software Engineer, *Kpro Solutions* - India

Aug 2020 – Nov 2020

- Revamped **Python APIs** for data transformation, achieving **30%** increase in extraction speed for various file formats.
- Built interactive **Tableau dashboards**, enabling comprehensive analysis and visualization of data for valuable insights.

### Machine Learning Intern, *Gnani.ai* - India

Feb 2020 – Apr 2020

- Worked in Natural Language Processing Team, contributing to development of **AI-based chatbots and voicebots**.
- Automated conversational data extraction leveraging **Selenium and BeautifulSoup** to build word vector models.

## PROJECTS

### Sanpjobs: AI Powered Job assistant | *React.js, Python, Go, LLM*

Nov 2023 – Present

- Developing one stop solution for tailoring Resume for specific job description leveraging LLaMa , streamlining application tracking and building cwalers to fetch real-time job openings enhancing job seekers' success.

### Medicare Geographic Insights | *Spark, AWS S3, Power BI*

Oct 2023 – Dec 2023

- Implemented a healthcare data integration solution, utilizing Apache Spark and AWS S3 for large data-sets, and created interactive Power BI dashboards for comprehensive Medicare Geographic Variation analysis.

### Canvas Bot | *Langchain, OpenAI API*

Mar 2023 – Apr 2023

- Built LLM based Canvas Help bot to assist students queries about classes, announcements, grades, deadlines etc using Langchain and OpenAI's API. It scrapped data real-time using BeautifulSoup from Canvas.

### Ultra-Fast-Lane-Detection | *PyTorch*

Jan 2023 – Apr 2023

- Developed and implemented an Ultra-Fast-Lane-Detection model that leverages CUDA and GPU technology to achieve real-time and precise lane detection for autonomous driving applications.

## 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.