# JALIGAMA ABHIRAM

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# Summary

Dedicated and results-driven Software Engineer with a passion for data science and full-stack development. Strong expertise in Java, Python, and machine learning. Enthusiastic about applying analytical skills and problem-solving abilities to develop innovative solutions. Eager to learn and explore new technologies, staying updated with industry trends to enhance software development and data-driven decision-making. Committed to continuous improvement and leveraging cutting-edge tools to build efficient and scalable applications.

## **Technical Skills**

Programming Languages: Python (Pandas, NumPy, Matplotlib), Java

Web Technologies: HTML, CSS

**Database Management: SOL** 

Tools: Tableau, Machine learning, vs code, Eclipse, Excel & Google Sheets

Technologies/Frameworks: GitHub

## **Soft Skills**

- Adaptability
- Team Player
- Creativity
- Presentation skills

### **Certifications**

- Java Full Stack Development, Hitbullseye, July-2023
- SQL for Data Science, Great Learning, October-2023
- Unsupervised Learning, Coursera, November-2023
- Machine Learning and Deep Learning, Kaggle, March- 2024

## **Education**

#### **Batchelor's of Technology**

Computer Science and Engineering May2024

Lovely Professional University – Punjab

Relevant Courses: Machine Learning, Computer Vision, Database Management, Fundamentals of Programming.

# **Projects**

#### 1. Generative Vision Revival | Python-Deep Learning models, PIL

- Developed and fine-tuned GAN models for generating highresolution images from low-quality inputs.
- Implemented CNN architectures to enhance image quality through advanced processing techniques.
- Utilized EDSR and LAPSRN models to train the model.

Outcome: Successfully revived and enhanced degraded images with effectiveness of GAN and CNN integration with 0.957 SSIM.

#### 2. Project Title: Library Management System | Java-Spring boot

- Developed a comprehensive Library management system using Java as the primary language.
- Established a secure and efficient system for updating and retrieving book information.
- Enabled administrators to make data-driven decisions for optimizing library Resources.

Outcome: Established a secure and reliable system, reducing errors and increasing the accuracy of library records.

## 3. Project Title: Gym Pose Estimation | Python

- Developed a Python-based gym pose estimation model which is used to analyze gym exercises and provide real-time feedback for improved form and technique.
- Prepared data pipelines for data validation, data transformation & data pre-processing.
- Used supervised learning technique such as KNN to estimate the Gym pose.

Outcome: Achieved 96.7% of accuracy using KNN model.

#### 4. Volume Control using Hand Gestures | Python-Media Pipe, Open cv

- Developed a real-time gesture-based volume control system using Media Pipe and OpenCV.
- Utilized Media Pipe Hand Tracking API for precise gesture recognition and real-time tracking.
- Integrated **OpenCV** for real-time video processing and gesture recognition.

Outcome: Achieved 95% accuracy in real-time, hands-free volume control using hand gestures with Media Pipe and OpenCV.