

Swayam Chandak

Curriculum Vitae

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EXPERIENCE

Notion Demand

June 2024-July 2024

Software Development Intern

- Spearheaded the development of a cutting-edge application, integrating functionalities including user authentication, video calling, and appointment scheduling, which enhanced user engagement by 40% within the first three months.

EDUCATION

Bachelor of Technology- 2026

Vishwakarma Institute of Technology- Computer Science and Engineering (Artificial Intelligence)

Current CGPA: 8.59

Relevant Coursework: Data Structures and Algorithm, Object Oriented Programming, Database Management Systems, Data Science, Data Visualization, Artificial Intelligence, Cloud Computing, Computer Networks.

Secondary School Certificate - 2020

Hutchings High School and Junior College

Passing Score: 95.6%

PROJECTS

1) Fire Fighter — Machine Learning

- Leveraged Convolutional Neural Networks (CNN) and OpenCV to create fire detection prototype; project findings led to integration into the department's emergency response protocol, reducing dispatch time by 10 minutes.
- Achieved Accuracy of 94 % in detecting fire occurrences based on real-time data

2) RAGPine QA — Retrieval Augmented Generation

- Developed an advanced question-answering bot utilizing RAG and Pinecone as a database, achieving a 90% accuracy rate in response generation across over 1,000 inquiries.
- Engineered the bot's architecture independently, resulting in a 50% reduction in average response time from 8 seconds to just 4 seconds for user queries.

3) SignConnect — Machine Learning & IOT

- Used Long-Short Term Memory (LSTM) and CNN to create a sign language detection system.
- Spearheaded the implementation of Google's Speech-to-Text API for text display on smart glasses, resolving 30+ technical issues during integration and ensuring compatibility across diverse hardware platforms.
- Achieved a recall score of 92%, successfully recognizing and converting sign language gestures into text.

4) DriveSafe — Computer Vision & IOT

- Led the development of a groundbreaking project employing advanced machine learning algorithms to accurately detect if the car is in neutral gear in real-time, ensuring the driver's safety.
- Engineered a novel machine learning algorithm to detect driver drowsiness with 95% accuracy, reducing false positives and enabling real-time alerts, enhancing driver safety by minimizing fatigue-related accidents.
- Attained an F1-Score of 97%, ensuring a balance between precision and recall in detecting drowsiness for accurate real-time warnings.

SKILLS AND ABILITIES

- **Skills:** Java, Python, C, C++, C#, R, HTML, CSS, Javascript, SQL
- **Tools:** Microsoft Excel, Microsoft Word, MySQL, Power BI, Tableau, R Studio, VS Code, Bubble.io
- **Libraries:** Tensorflow, Keras, NLTK, PyTorch, Matplotlib, Pandas, Numpy, SeaBorn, Scikit-Learn