




SWASTIK RAJ VANSI SINGH

+91-7889364915 | swastikrajvanshsingh0@gmail.com

 swastikrajvanshsingh |  swastik-raj-vansh-singh |  My Portfolio




EDUCATION

- **Thapar Institute of Technology** August 2021 - August 2025
B.Tech in Electronics and Computer Science with current CGPA of 8.45 Patiala, India
- **B.S.F. Senior Secondary School** 2021
Passed 12th standard with 95% and 10th standard with 96% Jammu, India

EXPERIENCE

- **Suvidha Foundation | Machine Learning Intern** Jul 2024 - Aug 2024
PEGASUS, BERT, T5, CNN Certificate of completion
 - Developed and implemented a news summarization model using advanced NLP tools such as PEGASUS, BERT, and T5, by scraping and summarizing web articles, and utilizing the data for training the model.

PROJECTS

- **Real Time Speech Emotion Detection using CNN** January 2024
Tools & Technologies: Pandas, NumPy, Keras, Librosa, Matplotlib, Transfer Learning Link 
 - Designed and implemented a real-time speech emotion detection system using deep learning techniques. The project involved converting audio files into spectrograms and utilizing a custom-built convolutional neural network (CNN) alongside transfer learning with ResNet-50 and deployed using Hugging Face's Gradio, enabling real-time emotion recognition from speech.
- **AI SaaS platform - AskMe** December 2023
Tools & Technologies: HTML, CSS, React, OpenAI, Replicate, Clerk Website 
 - Developed an AI SaaS platform, AskMe, integrating advanced AI tools for code, image, music, and video generation into a single, cohesive application. Leveraged OpenAI APIs for chat, code, and image generation, and Replicate APIs for video and audio generation to create a seamless user experience.
- **Diabetes Detection using Ensemble model** December 2023
Tools & Technologies: Python, Pandas, NumPy, Matplotlib Link 
 - Developed an ensemble machine learning model for detecting diabetes in women using medical data, focusing on HRV signal analysis. The model combined multiple algorithms, including Logistic Regression, Nearest Neighbors, Decision Tree, Voting classifier, Support Vector Machine, Naive Bayes and Random Forest.

SKILLS

- **Technologies:** Machine Learning, Web Development, Deep Learning, Generative AI
- **Programming Languages:** Python, C++, JavaScript, SQL, HTML
- **Library & Frameworks:** Pandas, NumPy, React, ExpressJS, CSS, Bootstrap
- **Developer Tools** OpenAI, GitHub, Prisma, Clerk, Replicate AI, Arduino
- **Courses:** Object Oriented Programming, Data Structures and Algorithms, Artificial Intelligence, Operating Systems, Data Base Management System, Computer Networks

CERTIFICATIONS

- JP Morgan Chase & Co - Software Engineering virtual Experience: Completed a virtual internship in the field of software engineering by establishing financial data feeds. **(Certificate of completion)**
- Data Structures and Algorithms Master Course by Code help **(Certificate of completion)**
- Machine Learning Specialization by Andrew NG **(Certificate of completion)**
- Udemy Complete Web Development Bootcamp by Angela Yu **(Certificate of completion)**
- Made a Rover to detect life on Mars for IRC 2023.

ACHIEVEMENTS

- National level Football Player
- Won Silver Medal in district Level Boxing Competition
- Solved over 250+ Data Structures and Algorithms questions
- Class Representative of Electronics and Computer Engineering