Jahnvi Paliwal

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EDUCATION

Degree/Certificate	Institute/School	GPA/Percentage	Year
B.Tech. CSE	Institute of Engineering and Technology, Mohanlal Sukhadiya University	8.21/10	2023-2027
HSC (CBSE)	St. Teresa's Sr. Sec. School	78.8%	2023
SSLC (CBSE)	St. Teresa's Sr. Sec. School	87.2%	2021

TECHNICAL EXPERIENCES

- **Marvik Academy for Technical Education, Udaipur**   *Nov 2024- Dec 2024*
  Flutter Developer /Outcome Project: Notes Application Using Flutter- Dart, Android Studio
  – The goal is to create a fast-cross-platform Notes App that offers an intuitive interface for capturing and organizing notes in software (as a part of the curriculum).
  – Implemented customization features and ensured data persistence, the app meets the needs of students and professionals, enhancing productivity and information management.

PROJECTS

- **Cognitive Stress Analysis**   *2025*
  Self Project /Tools used: Core Libraries-librosa, nltk, scikit-learn, pandas, Algorithms- Isolation Forest
  – This project provides a framework for analyzing speech patterns to detect potential cognitive stress.
  – The system evaluates audio input to generate quantitative metrics and comparative assessments of cognitive load.

- **Intelligent Brawl Monitor – CCTV integration software**   *2024*
  Self Project /Tools used: TensorFlow, Python, Pandas, OpenCV, NumPy, Email Automation
  – The project detects aggression from any human being and gives an alert as an SOS to the email IDs provided.
  – It highlights the functionalities for applications in security, workplace safety, and smart home system.

- **MediHelper – AI based Website**   *2024*
  Self Project/Tools used: TensorFlow, Python, Pandas, NumPy, Django, HTML, Javascript, SQLite, ML Algorithms
  – By leveraging AI technologies, MediHelper is poised to become a valuable resource for individuals seeking assistance with skin-related health issues and managing healthcare costs.
  – It aims to provide accurate predictions and valuable insights, ultimately enhancing user experience and promoting better health management. Managed data storage and retrieval processes, ensuring a quick access to data.

- **Regression Health Costs Calculator – ML Model**   *2024*
  Self Project/Tools used: TensorFlow, Python, ML Algorithms
  – The project employs regression algorithms to predict healthcare costs based on demographic and health-related features. (Future scope: people can get the estimations and care for their insurance.)
  – Training model on 80% of the data, aiming for a Mean Absolute Error (MAE) under $3500 to assess accuracy.

- **Cat and Dog Image Classifier – ML Model**   *2024*
  Self Project /Tools used: TensorFlow (Models, layers, Image preprocessing), Python
  – The project utilizes Convolutional Neural Networks (CNNs) with TensorFlow and Keras to classify images of either cats or dogs, achieving a target accuracy of at least 63%.
  – It enhances the dataset with techniques like flipping and zooming to improve model robustness.

- **The smart Railway booking and Data Management - Software**   *2023*
  Self Project /Tools used: TensorFlow, Python, Pandas, OpenCV, NumPy, Email Automation
  – Developed a solution for a railway booking system that facilitates ticket bookings across 28 states in India, applied to use SQL, Python & a reliable storage server.
  – Integrated CSV file formatting for easy data import and reporting at the locations, Managed data storage and retrieval processes, ensuring a quick access to data.

TECHNICAL & MISCELLANEOUS SKILLS

- **Programming/Scripting**: C/C++ , Java Basics, Python, PostgreSQL, GraphQL, SQL & DBMS, Linux, Go
- **Software/Application & Tools:** VSCode, turbo C & gcc Compiler, Django, OnlineGDB, IntelliJ, PyCharm, Git, MS Office Tools (Word, Presentation, Excel), OpenCV, OpenPose, Annaconda, TensorFlow, Keras, Scikit-Learn, Pandas
- **Core Concept:** Vision Computing, Machine Learning, Basics of NLP and Deep Learning, CNN, Computer Architecture, OOP, DSA, REST API
- **Languages Known:** Fluent in English; Native in Hindi; Beginner Proficiency in Korean

CERTIFICATIONS & TRAININGS

- **INFOSYS➔** Computer Vision 101, 2025, NLP in Fundamentals and Practices, 2025
- **UDACITY➔**Foundation of Gen AI, 2025
- **DATAFLAIR➔** Introduction to C Programming, 2024, Introduction to OpenCV, 2025
- **KAGGLE➔** Intermediate Machine Learning, 2024, Machine Learning Explainability, 2024
- **EDX➔** Introduction to Microprocessors, Machine Learning with Python, 2024
- **GUVI➔** SAWiT.AI Learnathon Program-fundamentals of GenAI by HCLTech Women Techmakers, 2024
- **CAMPUSX➔** E-KYC using Computer Vision, 2024
- **OPENCV➔** OpenCV Bootcamp, 2024
- **UDEMY➔** Advanced Database and SQL Querying, 2024, Linux Tutorial with Caddy and Timex, VSD-Circuit Design & SPICE Simulations-Part 1, 2024
- **ORACLE➔** Oracle Database Foundations Certified Junior Associate, 2023
- **STANFORD UNIVERSITY➔** Introduction to Internet of Things, 2023

EXTRA-CURRICULAR ACTIVITIES

- Actively participating in contests, webinars, and hackathons like Google AI for Impact and Kaggle, 2024.
- Actively working on 1+ research papers and patents for human pose estimation and interdisciplinary domains, 2024
- Volunteering at Aarohan Youth Fest Udaipur with 500+ participants as an event organizer, 2024.
- Received scholarship for Bertelsmann Udacity on advanced Generative AI courses and certifications, 2024.
- Accomplished in Gen AI intensive challenge courses by Kaggle with Google, 2024.
- Serving as an NSS candidate for women empowerment and purpose in civic mindsets, 2024.
- Secured among the top 1000 students who completed the certification race by Oracle University, 2023.
- Participated in contests like Google Hackathon for coding and SIET space quizzes, 2021.
- Experienced as a swimming coach and trained 100+ swimmers, 2021.
- Previously contributed to Hindu societies, educating and making them aware of the social evils by working under Bhartiya Sanatan Ekta Manch, 2020-2022.
- Volunteered with the Mukul Madhav Foundation and participated in food donation drives during the COVID19 pandemic, 2020