

Shubham Verma

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EDUCATION

Vellore Institute of Technology

Bhopal, Madhya Pradesh

Bachelor of Technology in Computer Science Engineering *with Specialization in Health Informatics 4 Years Program (2026)*

Overall GPA: 7.7/10.0

SKILLS

| | |
|---------------------------------|--|
| Languages | Python, C++, Java, Kotlin, SQL, HTML/CSS, Kotlin |
| Python Frameworks and Libraries | BeautifulSoup, Seabor, LangChain, Pandas, NumPy, OpenCV, Scikit-Learn, Flask, Pinecone |
| Tools & Platforms | Git, GitHub, Google Colab, Android Studio, MySQL, HuggingFace |

PROJECTS

- **Diabetes Prediction Classifier (KNN Algorithm)**
 - Developed a machine learning model using the K-Nearest Neighbors (KNN) algorithm to predict the likelihood of diabetes in patients based on diagnostic metrics.
 - Performed data preprocessing and Exploratory Data Analysis (EDA) on clinical datasets, utilizing Pandas and NumPy to normalize features and handle missing values.
 - Managed the project using Git and GitHub, maintaining version control for the Jupyter Notebooks and datasets.
 - **Tech Stack:** Python, Scikit-Learn, Pandas, NumPy, Git.
- **Medical Chatbot using Generative AI (RAG Pipeline)**
 - Engineered a Retrieval-Augmented Generation (RAG) chatbot capable of answering domain-specific medical queries by retrieving relevant context from documents.
 - Integrated Google Gemini as the Large Language Model (LLM) to generate accurate and context-aware responses.
 - Utilized Pinecone as a vector database to store high-dimensional embeddings and LangChain to orchestrate the retrieval workflow.
 - **Tech Stack:** Python, LangChain, Pinecone, Flask, Google Gemini API.

EXTRACURRICULAR ACTIVITIES

- Member Of Data Science Club
- Data Science Nights 2.0 (25 November 2023)
- Participated in “Corporate Role Play” (16 November 2022)

EXPERIENCE

Internship At Ashva Wearable Technologies Pvt Ltd.(18 September 2024 - 19 January 2025)

- **Hip Navigation(21 September 2024 - 21 November)**
 - Developed a Kotlin - based Android Application
 - Used Kotlin Multiplatform
 - Developed for 2 different firmwares
 - Implemented the User Interface Using Jetpack-Compose and XML
 - Utilized Firebase to store User Account Information and show real-time Pitch and Yaw using Sensor Fusion to show the alignment of Metal Implant using Fit Knees (Product from Ashva)

CERTIFICATIONS

- Applied Machine learning in python (Coursera Course)
- Introduction to C Plus Plus (Simplilearn Course)
- Python Essentials (Vityarthi Course)
- Data Science with Python (iamneo)
- Computer Vision(VITyarthi Course)
- Java Development on Oracle Cloud (Oracle)
- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (Oracle)
- Oracle Cloud Infrastructure 2025 Data Science Professional (Oracle)
- Oracle AI Vector Search Professional (Oracle)