

# 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, Seaborn, 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)