

SATYAM VERMA

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Education

MM University, Mullana May 2024
B.Tech in COMPUTER SCIENCE and ENGINEERING GPA: 9/10

Blue Bells School, Ambala March 2020
CLASS XII (PCM) — CBSE

Experience

IGNIT Technical Solutions June 2023 – July 2023
Software Engineer Intern — Back-end Chennai

- Developed **RESTful APIs** using **Django** framework to support front-end applications built with React.
- Implemented **token-based** authentication.
- Implemented database models and schema using **Django's ORM**.

Technical Skills

Languages/Database: C++, Python, Vector Database
Specializations: Data Structures, Image Processing, Deep Learning, Internet of Things (IoT)

Awards & Achievements

- Winner** at Smart India Hackathon. [Link](#)
- Finalist** at UNESCO INDIA AFRICA International Hackathon. [Link](#)
- Finalist** at Singapore India Hackathon under Startup Track. [Link](#)

Projects

Handwriting Assessment App | Smart India Hackathon [Git](#) Jun – Aug 2022

- Developed a deep learning-based application using **Python**, **TensorFlow**, and **OpenCV** that captures handwritten pages and highlights wrongly formed alphabets to enhance handwriting of students.
- Created **data sets**, implemented the deep learning model, and designed **image processing** and **analysis algorithms**.
- Developed a **Flask API** and set up **CI/CD** pipelines for Dockerized **Azure Containers**, ensuring smooth deployment and scalability.

Soil Moisture Measuring App | UNESCO-INDIA-AFRICA Hackathon [Git](#) Nov 2022

- Created a **machine learning model** using **TensorFlow**, **OpenCV**, and **Python**, with a **locally generated data set**, to build an app that uses a standard image from a mobile camera to determine soil moisture.
- Forecast soil moisture and determined the best time to irrigate using weather information and soil type.

TalkHealthy | AI-Powered Fitness Chatbot [Git](#) April 2023

- Developed a **web application** using **Python** that provides users with **personalized answers** and guidance on diet, gym, and exercise-related questions.
- Implemented using the **Llama model** to facilitate **natural language processing** and understanding of user queries.
- Utilized a **vector database** to store a vast amount of data on diet, nutrition, fitness, and exercise to integrate a **semantic query system** that combines the user queries with relevant contextual information, enhancing the accuracy and relevance of responses.

Certifications

- Google Cloud Digital Leader Training by Google Cloud, Coursera. [Link](#)
- Google Cloud Big Data and Machine Learning Fundamentals, Coursera. [Link](#)
- Algorithmic Toolbox — University of California San Diego, Coursera. [Link](#)