Taswi Shahpar

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Education

VIT Bhopal University,Computer Science and Engineering Sept 2022 – May 2026

- GPA: 8.48

Technologies

Languages: Java,JavaScript,HTML,CSS,Python

Technologies & Frameworks: Google Colab,MATLAB,Visual Studio Code,TensorFlow,PyTorch,GANs,Generative AI, Machine Learning

Projects

Smart Farming Project Aug , 2023 – Oct , 2023

- Developed an Arduino-based IoT smart farming system with automated irrigation and environmental sensing, reducing water usage by 20% and enhancing crop monitoring efficiency.
- Conducted extensive testing on fields to ensure system reliability up to 50% and accuracy up to 60% under various environmental conditions by deploying the system in real time environment.
- Tools Used: Arduino IDE, Arduino Uno , Basic sensors

BCG Gen AI Job Simulation on Forage Jan , 2025

- Completed a job simulation involving AI-powered financial chat-bot development for BCG's GenAI Consulting team , gaining experience in Python programming, including the use of libraries such as pandas for data manipulation , data pre-processing, feature engineering, and exploratory data analysis.
- Integrated and interpreted complex financial data from 10-K and 10-Q reports, employing rule-based logic to create a chat-bot that provides user-friendly financial insights and analysis.
- Tools Used: python

Rice Leaf Disease Detection Jul , 2024 – Apr , 2025

- Processed 11,790+ rice leaf images with CycleGAN augmentation and OpenCV preprocessing, and built a Deep Learning pipeline (CNNs) achieving 99% test accuracy.
- Delivered a scalable Generative AI solution on Google Colab, empowering 500+ farmers through early-stage rice leaf disease detection.
- Tools Used: python , Google colab , GANs , Generative AI , machine learning

Achievements

Finalists in AI innovation Hackathon by Haptiq Jan, 2025

- Designed a framework utilizing RNNs, CNNs, and IoT integrations to predict disasters like earthquakes, floods, and cyclones. Focused on real-time monitoring, automated alerts, and public awareness through an interactive dashboard visualization.
- Integrated cloud computing (AWS, Google Cloud) and AI frameworks (TensorFlow, PyTorch) for scalable processing for early alerts on earthquakes, floods, and cyclones.

Extracurricular activities

National Service Scheme Dec , 2022 – Feb , 2023

- Raised awareness against excessive alcohol consumption in 10 wards of 3 villages .