VIDHIKA JAIN

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Professional Summary

Detail-oriented and research-driven Integrated M.Tech student in Artificial Intelligence at VIT Bhopal with academic and project-based experience in full-stack development and applied machine learning. Passionate about solving real-world problems using AI, particularly in healthcare and sustainable technologies. Adept at working in team environments and communicating complex ideas effectively.

Technical Skills

- **Programming Languages:** Python, Java, SQL

- **AI/ML Frameworks:** TensorFlow, Scikit-learn, OpenCV, Pandas, NumPy, NLP

- **Web Development:** Flask, HTML, CSS, JavaScript

- **Tools & Platforms:** Git, Jupyter Notebook, VS Code, Tkinter

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Education

Vellore Institute of Technology, Bhopal
Integrated MTech in Artificial Intelligence
Oct 2022 – Present

Holy Angels Hr. Secondary school, Ashta
12th Standard (2021 -2022) - 87%
10th Standards (2019 -2020) -86%

Academic Projects
Inventoday – Supply Chain Optimization using ML
July 2025 – Aug2025

- Developed a machine learning–based model for inventory demand forecasting and stock optimization.

- Achieved an R^2 score of 0.9937 using Linear Regression with real-world retail data.

- Enhanced supply chain agility by integrating pricing, seasonality, weather, and promotional factors.

- Tools: Python, Scikit-learn, XGBoost, Pandas, NumPy, Google Colab.

E-Book Website – Student-Centric Learning Platform

July 2025 – Aug2025

- Designed and deployed a Pinterest-style interactive website for e-books.

- Implemented a soft pastel UI/UX with cloud-based hosting on Vercel.

- Features include book previews, categorized navigation, and engaging visual layout for student accessibility.

- Live link: ebook-website-bay-one.vercel.app

- Tools: HTML, CSS, JavaScript , Vercel.

NeuroTask: Smart Automation

Apr 2025

- Designed a voice assistant using Python that leverages both cloud (GPT-3.5) and local (Gemma) LLMs for real-time file management and automation.

- Enabled functionalities such as voice-activated file sorting based on semantics and user intent.

- Tools: Python, speech_recognition, pyttsx3, Tkinter, OpenAI API, Ollama.

Machine Learning-Based CKD and Diabetes Prediction

Dec 2024 – Apr 2025

- Built a Flask web app that predicts chronic illnesses using ML algorithms with accuracies of 96-98%.

- Incorporated rural applicability through intuitive UI and accessible diagnostics.

- Tools: Python, Scikit-learn, PCA, RFE, Flask, HTML/CSS.

Pooh AI – Personal Optimised Online Helper

Nov 2024 – Mar 2025

- Developed a smart assistant to perform personalized tasks using voice commands.

- Integrated NLP techniques to enhance conversational fluency and user engagement.

- Tools: Python, SpeechRecognition, Tkinter.

CamScanner

May 2024 – Nov 2024

- Created a Python tool using OpenCV for document enhancement and automatic cropping.

- Improved user satisfaction by refining image clarity and file output quality.

Early Disease Detection in Plants

Feb 2023 – Jun 2023

- Trained CNN models on plant leaf datasets to classify disease types.

- Documented findings for use in further academic research and publication.

LEADERSHIP & CAMPUS ENGAGEMENT

Operational Lead – Entrepreneurship Cell (E-Cell), VIT Bhopal

- Spearheaded operations for multiple startup events and hackathons, ensuring smooth execution from planning to completion.
- Managed guest onboarding and student coordination, streamlining communication between stakeholders.
- Oversaw crowd management and logistics to enhance participant experience and maintain event flow.
- Collaborated with faculty and external partners to foster an entrepreneurial culture on campus.

Technical Secretary – Data Science Club, VIT Bhopal

- Organized technical workshops, coding challenges, and data hackathons to upskill members.
- Designed and delivered knowledge-sharing sessions on AI/ML tools and real-world applications.
- Facilitated cross-team collaboration on data-driven projects, encouraging peer-to-peer learning

Languages

- English (Fluent)
- Hindi (Fluent)