

# Vipin Vashisth

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## Professional Summary

Data Scientist specializing in Generative AI and agentic frameworks such as LangChain, LangGraph, CrewAI, AutoGen, and Multi-Agent RAG. Skilled in building intelligent workflows and deploying AI applications using Streamlit, Gradio, Docker, and Hugging Face. Passionate about simplifying Machine Learning, Deep Learning, NLP concepts, and agentic tools through insightful blogs. Holds a Master's degree from NIT Warangal, combining analytical depth with hands-on expertise to deliver impactful AI solutions.

## Technical Skills

**Programming:** Python, My-SQL, C++  
**ML & DL:** Supervised & Unsupervised Learning, ANN, CNN, Scikit-Learn, Py-Torch, and Tensorflow  
**NLP:** Text Preprocessing RNN, LSTM, GRU, Attention Mechanism, Transformers, HuggingFace, LangChain, LangGraph, Crewai, Autogen, RAG's, and Multi-Agent Systems  
**Tools & Automation:** n8n, Streamlit, Git, VsCode  
**Data Cleaning & Visualization:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, EDA  
**Deployment:** Streamlit, HuggingFace, Docker, AWS  
**Areas of Interest:** Research, RAG'S, Multi-Agent systems, AI

## Projects

**Autograder:** Developed an agentic application that automates the end-to-end assignment evaluation workflow, reducing manual grading effort by 80% and delivering instant, personalized feedback to 500+ learners per month.  
**Blog Website Chatbot:** Developed an intelligent blog chatbot that leverages content from current and related blogs to answer user queries. Integrated an agentic RAG system enabling personalized learning path generation from available resources, which users can further customize the roadmap within the same session.  
**Query Resolution System:** Build an AI-powered query resolution system leveraging RAG and Agentic AI to improve query response accuracy and efficiency by over 60%. Utilizing Crewai for orchestrating multi-agent workflows and LangChain for seamless LLM-based retrieval, enabling intelligent and context-aware query handling.  
**Smart Health Assistant:** The Smart Health Assistant collects user data and uses specialized agents to deliver personalized health recommendations, a tailored meal plan, and creates a customized workout schedule. offering a complete and personalized health plan to improve overall well-being.

## Experience

<b>Data Scientist, Analytics Vidhya</b>	<b>Gurugram, Haryana</b>
<ul style="list-style-type: none"><li>Working on real world-based applications varying from classical ML to advance GEN-AI spectrum</li><li>Implemented LLM-based solutions using multi-agent frameworks, improving workflow efficiency by 60%.</li><li>Created advanced AI tools to streamline internal processes and automation.</li><li>Worked on technical blogs bridging ML fundamentals with latest GenAI innovations, with over 100K sessions.</li></ul>	
<b>Machine Learning Engineer, Indus Vision Pickle AI Innovations</b>	<b>Bangalore, Karnataka</b>
<ul style="list-style-type: none"><li>Analyze PLC data to uncover insights from various physical metrics, such as time, pressure, and temperature. Help's in increasing the defect detection accuracy over 40%.</li><li>Develop a classifier that processes live data from DigitalOcean, performs real-time classification, and displays results live on a mobile dashboard.</li><li>Worked on trained models like YOLO, Res-Net, and Efficient Net for object detection, segmentation and classification and helped in developing logic for accurate and fast detection of objects and texts.</li></ul>	

## Education

National Institute of Technology, Warangal	2021-2024
Masters of Science and Technology (Electronics Specialization)	CGPA: 7.10
Pt. Neki Ram Sharma Govt. College	2018-2021
Maharishi Dayand University	Percentage: 76.70

## Certifications

Python Packages for Data Science [Click->](#)  
Machine Learning Specialization [Click->](#)  
Gold Badge on HackerRank  
Data Analytics Essentials(CISCO Networking ) [Click->](#)  
Complete Generative AI Course with Langchain and Huggingface [Click->](#)