Raghuraj Pratap Yadav

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Summary

Aspiring SDE Intern with hands-on experience in Agile methodologies through an internship at Infosys. Demonstrated skills in full-stack web development through creating a Django-based resume builder hosted on Microsoft Azure. Engaged in impactful roles as a Microsoft Student Ambassador and provided valuable feedback for deeplearning.ai courses. Eager to leverage strong technical skills in Algorithm designing , Python, cloud services, and machine learning to contribute effectively to software development projects

Education

G.L. Bajaj Institute of Technology and Management | B.Tech, Computer Science, Artificial Intelligence, Machine Learning   May 2026
- **Relevant Coursework**: AI, Data Structures and OOP, Big Data, Database Principles, Software Development Lifecycle, Opearting System

CBSE Class 12th (2022)   94.6%

Work Experience

Infosys| AI Intern (May 2024-july 2024)	SilverTouch Technologies	Software Developer Intern (Aug-Oct)
• Collaborated on an **Automation** project using Agile methodology, working in sprints to improve team efficiency and project delivery • Led the team for one **sprint**, ensuring smooth coordination and timely completion of sprint goals. • Gained hands-on experience in the **software development lifecycle** and team collaboration, utilizing tools like Cloud Services to enhance project outcomes.	• Worked on the backend system for the **Women & Child Development Ministry Project**, contributing to the development and maintenance of key project features. • Implemented the **Content Management section** under the guidance of a Senior Developer, ensuring efficient and user-friendly management of project content. • Connected the system with a **Database using ORM (Object-Relational Mapping)**, ensuring the solution was **safe**, **reliable**, and **scalable** for future use.

Skills

Data Science	Data Wrangling, Data Visualization, Statistical Analysis, Predictive Modeling, Feature Engineering, Model Deployment
Programming	Python, C, C++, HTML/CSS, JavaScript, SQL (MySQL, SQLite), Bash , Java, R,
Frameworks Tools/Technologies /Others	Tensorflow, Scikit-Learn, Pytorch, NumPy, Pandas, Matplotlib, Keras, React.js, Django , Flask, API, Git, GitHub, Docker, Azure, Machine Learning, NLP , CNN , DNN, LLM, Linux, Windows, Selenium, Object Oriented Programming , Microsoft SQL Server, Multithreading , Retrieval Augmented Generation, Distributed System , Pipeline and Workflows

Projects

Automated Attendance System Jan 2024	Templates Resume Creator May 2023 - May 2023
▪ Implemented facial recognition using OpenCV and DeepFace ▪ Designed scalable PostgreSQL database ▪ Developed automated reporting and email notification system ▪ *Skills:* Computer Vision, Database Design, Automation, Python, PostgreSQL	▪ Developed a web-based resume creation tool using Django framework and Gemini API for intelligent content suggestion and Hosted the application on t Azure for scalability and reliability ▪ Achieved 1000+ user interactions within the first week of launch ▪ **Skills:** Django, Azure Cloud Services, NLP, Gemini API Integration, Web Development, User Interface Design
CareerCanvas: Job Finder Chatbot Jan 2024	Article Web Project Nov 2023 - Nov 2023
▪ Led development of a RAG-based job search chatbot using Azure cloud services ▪ Designed scalable PostgreSQL database ▪ Integrated Azure OpenAI for embeddings generation and AI Search for vector-based queries ▪ Optimized Azure PostgreSQL Vector Database for efficient job data storage and retrieval ▪ **Skills:-** Azure AI Search , Semantic Search, PostgreSQL, LLM, Azure OpenAI, Advance RAG, Search Agent	▪ Developed a dynamic web application using Django Framework, hosted on Azure and Integrated Azure Blob Storage for efficient storage and retrieval of rich text format articles ▪ Created user authentication system and interactive features (writing, liking, commenting, following, notification, Feedbox) ▪ Deployed and managed the application on Azure, ensuring scalability and high availability and CKEditor for user-friendly article composition and formatting *Skills:* Full-stack Development, Django, Azure Cloud Services, Azure Blob Storage, User Authentication, Cloud Deployment, Scalability
Automated Short Video Creator - ASVC Nov 2023 - Nov 2023	**KNN classifier for Digit Recognition**
▪ Engineered AI-driven system for creating short news videos, gaining 5000+ viewers in 3 weeks ▪ Implemented data scraping (Selenium) and data cleaning for content gathering ▪ Utilized LLMs for script generation and OpenCV/Moviepy for video creation	▪ Trained the model by building a **Vantage Point tree** using datapoints from **MNIST** image train dataset. ▪ Computed the K Nearest Neighbors for predicting the labels using priority queue with accuracy of **98.4%**. ▪ Distance metrics used for calculation **Euclidean** (L2 norm), **Chebyshev** (L∞ norm), **Manhattan** (L1 norm)
Python Based Multi-Modal Search Engine Developed a Python-based search engine with semantic text search powered by PostgreSQL, and integrated image search functionality using embeddings for content-based image retrieval.	Developed **Legal Support Chatbot** using **RAG (Retrieval-Augmented Generation)**, **Search Agents**, **Chain of Thought** reasoning, **Human Feedback for Clarification**, **Web Scraping**, and **Retriever** techniques.

Achievements

AWS AI & ML Scholarship out of 50,000 applicants	Toppr Asha Scholarship
Selected for Amazon ML Summer School 2024 out of 80 000+ applicants.	Google Kickstart Ranks: Round H 2022-3280, Farewell Round B 2023 - 753, Farewell Round D 2023- 150
HDFC ECSS Scholarship	Participant of Amazon's Campus Summer Series
MI Scholarship for class 11 and 12 students	Selected for Reliance Undergraduate Scholarship out of 65000
5 star rating on HackerRank in C++, Python , problem Solving, SQL	Codeforce (max rating 900+), Leetcode (max rating 1618+)
Awarded gold medal in Mathematics Olympiad	○ Awarded gold medal in National Science Olympiad

Position of Responsibility

Microsoft Student Ambassadors	Microsoft	DeepLearning.AI Tester & Mentor
▪ Mentored new Ambassadors, helping them understand program goals and improve their technical skills and participated in Quarterly projects organised by Microsoft . ▪ Hosted workshops on Data Wrangling, Feature Engineering, Machine Learning, AI,Microsoft Fabric, PowerBI, and Azure technologies, RAG ▪ Project Achievement: One of my projects was selected among the top 5 in a quarterly project competition	• Testing and providing feedback on courses and materials to improve the quality of DeepLearning.AI offerings • Helping Learner if they face any issues with specific specialization courses

Microsoft Certificates :- Azure Fundamental (AZ-900), Azure AI Fundamental (AI-900), Azure Data Fundamental (DP-900), SC-900

ONLINE COURSES:-

Data Structure & Algorithm Specialization	TensorFlow Dev. Professional Certificate	Machine Learning Specialization
Deep Learning Specialization	AI Programming with Python	Generative AI for Software Development