

# Raghuraj Pratap Yadav

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## Summary

Software Developer Intern with foundational experience and familiarity in Agile methodologies gained through roles at Infosys and SilverTouch Technologies. Demonstrated ability to develop backend systems using Django and enhance projects with cloud services and machine learning. - Created a Django-based resume builder hosted on Azure. - Collaborated on improving project deliverables with Python and Azure services. Eager to apply strong coding, data handling skills, and rich collaboration experience to contribute effectively as a Data Science Intern by managing dataflows, developing reports, and ensuring data accuracy.

## Education

### G.L. Bajaj Institute of Technology and Management

B.Tech, Computer Science, Artificial Intelligence, Machine Learning

May 2026

- **Concentration:** Computational Data Analytics
- **Relevant Coursework:** AI, Data Structures and OOP, Big Data, Database Principles, Intro to Machine Learning

CBSE Class 12th (2022)

93.8%

CBSE Class 10th (2020)

93.17%

### Scholastic Achievements

- Awarded gold medal in Mathematics Olympiad 2019
- Awarded gold medal in National Science Olympiad 2018
- Got 1st Rank in class continuously from class 5 to 12

## Work Experience

### Infosys

WFH mode

AI Intern

May 2024 - Jul 2024

- Collaborated on 'College: Automated Attendance Reporting' project using Agile methodology, improving team efficiency and project delivery.
- Gained hands-on experience in the software development lifecycle and team collaboration, utilizing tools like PyTorch,, and Cloud Services to enhance project outcomes.
- Participated in performance improvements for project software, optimizing Python code and integrating new algorithms to enhance execution efficiency and quality-assure data processes.

### SilverTouch Technologies Ltd.

Onsite

Software Developer Intern

Aug 2024 - Sep 2024

- Developed backend systems for a Ministry of Women and Child Development project using Django and Python, focusing on database management and ensuring data integrity.
- Collaborated with cross-functional teams, utilizing tools and processes that align with database management and data development strategies.

## Projects

### [Automated Attendance System](#)

Jan 2024

- 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

### [Article Web Project](#)

Nov 2023 - Nov 2023

- Developed a dynamic web application using Django Framework, hosted on Microsoft Azure
- Integrated Azure Blob Storage for efficient storage and retrieval of rich text format articles
- Implemented CKEditor for user-friendly article composition and formatting
- Created user authentication system and interactive features (writing, liking, commenting)
- Deployed and managed the application on Azure, ensuring scalability and high availability
- **Skills:** Full-stack Development, Django, Azure Cloud Services, Azure Blob Storage, User Authentication, JavaScript, Cloud Deployment

### [Automated Short Video Creator - ASVC](#)

Nov 2023 - Nov 2023

- 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

### [Templates Resume Creator](#)

May 2023 - May 2023

- Developed a web-based resume creation tool using Django framework and Gemini API for intelligent content suggestion
- Implemented NLP-powered feature to suggest key points based on job descriptions
- Hosted the application on Microsoft 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

- 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

#### **Calories Burned Prediction Model**

- Achieved a mean absolute error of 1.58 calories from a stratified split with 85% training data and 15% testing
- Conducted a cross-validation for hyperparameter optimization using a random search model to prevent overfitting
- Transformed training set for handling null entries, text and categorical variables, and value scaling concerns
- **Skills:** Machine Learning, Data Preprocessing, Model Optimization, Python, Scikit-learn

#### **Skills**

**Data Science:** Data Wrangling, Data Visualization, Statistical Analysis, Predictive Modeling, Feature Engineering, Model Deployment, Big Data Analysis, PySpark, Microsoft Fabric, Apache Spark, Delta Lake, PowerBI, Lakehouse, Pipelines, Forecasting, Data Models, Data Lake.

**Programming:** Python, C++, HTML/CSS, JavaScript, SQL (MySQL, SQLite), Bash, Java, R, MATLAB

**Frameworks:** TensorFlow, Scikit-Learn, Pytorch, NumPy, Pandas, Matplotlib, Keras, Django, Git, GitHub, Docker, Azure Cloud Services, Azure, Machine Learning, NLP, CNN, DNN, LLM, Linux, Windows, Selenium, Object Oriented Programming, Microsoft SQL Server, Multithreading, Database Management, OpenCV, Pandas

#### **Position of Responsibility**

#### Microsoft Student Ambassadors | Microsoft

- Mentored new Ambassadors, helping them understand program goals and improve their technical skills
- Participated in Quarterly projects organised by Microsoft Programme Managers.
- Hosted workshops on Data Wrangling, Feature Engineering, Machine Learning, AI, PowerBI, and Azure technologies, RAG teaching more than 300 students and enhancing their technical proficiency
- **Project Achievement:** One of my projects was selected among the top 5 in a quarterly project competition

#### **DeepLearning.AI Tester**

##### Volunteer Role

- Testing and providing feedback on courses and materials to improve the quality of DeepLearning.AI offerings
- Ensuring the accuracy and relevance of educational content for a global audience

#### **Achievements**

AWS AI & ML Scholarship	Toppr Asha Scholarship
Reliance Undergraduate Scholar	Google Kickstart Ranks: Round H 2022-3280, Farewell Round B 2023 - 753, Farewell Round D 2023- 150
HDFC ECSS Scholarship	Solved more than 700+ programming problems on competitive platforms
MI Scholarship for class 11 and 12 students	Selected for Amazon ML Summer School 2024

#### **Certification**

**Microsoft Certified: Azure Fundamental (AZ-900):**

**Microsoft Certified: Azure AI Fundamental (AI-900):**

**Microsoft Certified: Azure Data Fundamental (DP-900):**

**Microsoft Certified: Security, Compliance and Data Fundamental (SC-900):**

**Microsoft Certified: Azure Administrator (AZ-104):**

#### **Online Courses/Projects**

**Data Analysis With R programming:** Google Coursera

**Machine Learning Specialization:** DeepLearning.AI and Stanford University | Coursera

**DeepLearning.AI TensorFlow Developer Professional certificate:** DeepLearning.AI | Coursera

**Deep Learning Specialization:** DeepLearning.AI | Coursera

**Machine Learning Competitions on Kaggle:**

**Sentiment Analysis with Deep Learning using BERT:**

**AI Programming with Python:** Udacity

**AWS Machine Learning Fundamentals:** Udacity