

# 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 Python, cloud services, and machine learning to contribute effectively to software development projects

## SKILLS

<b>Data Science</b>	Data Wrangling, Data Visualization, Statistical Analysis, Predictive Modeling, Feature Engineering, Model Deployment
<b>Programming</b>	Python, C, C++, HTML/CSS, JavaScript, SQL (MySQL, SQLite), Bash, Java, R, Java
<b>Frameworks</b>	Tensorflow, Scikit-Learn, Pytorch, NumPy, Pandas, Matplotlib, Keras, React.js, Django, Git, GitHub,
<b>Tools/Technologies</b>	Docker, AWS Cloud Services, Azure, Machine Learning, NLP, CNN, DNN, LLM, Linux, Windows, Selenium, Object Oriented Programming, Microsoft SQL Server, Multithreading

## EDUCATION

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

**Expected Graduation: May 2026**

B.Tech in Computer Science with specializations in Artificial Intelligence and Machine Learning

CGPA: 7.6/10

■ **Concentration:** Computational Data Analytics

■ **Relevant Coursework:** AI, Data Structures and OOP, Big Data, Database Principles, Intro to Machine Learning

## EXPERIENCE

### Infosys (WFH mode) | Software Engineering Intern

**May 2024 – July 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, React.js, and AWS Cloud Services to enhance project outcomes
- Participated in performance improvements for project software, optimizing Python code and integrating new algorithms to enhance execution efficiency

## KEY PROJECTS

### Automated Attendance System (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,

### Article Web Project (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 (November 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

- **Skills:** Web Scraping, NLP, Video Processing, Content Automation, Python, Selenium, OpenCV

## OTHER PROJECTS

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### Calories Burned Prediction Model (2024)

- 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

### Templates Resume Creator (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

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## Positions Of Responsibility

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### Microsoft Student Ambassadors | Microsoft

September 2023- Present

- 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, 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

June 2024- Present

#### 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
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## Achievements

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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

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## CERTIFICATES

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- Microsoft Certified: Azure Fundamental (AZ-900 )
  - Microsoft Certified: Azure AI Fundamental (AI-900) 2022
  - Microsoft Certified: Azure Data Fundamental (DP-900)
  - Microsoft Certified: Security , Compliance and Data Fundamental (SC-900)
  - Microsoft Certified: Azure Administrator (AZ-104)
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## ONLINE COURSES / PROJECTS

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- **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