

Raghuraj Pratap Yadav

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Summary

Aspiring Applied Scientist Intern with practical experience in Agile methodologies and full-stack web development. Initiated impactful projects at Infosys and leveraged cloud services such as AWS. Enhanced technical proficiency through roles as a Microsoft Student Ambassador, participating in industry-relevant workshops. Eager to leverage Python, machine learning, and cloud expertise to contribute effectively to research and development projects.

Education

G.L. Bajaj Institute of Technology And Management
B.Tech in Computer Science

Greater Noida
Nov 2022 - May 2026

Work Experience

Infosys

Artificial Intelligence Intern

Remote
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, React.js, and AWS Cloud Services to enhance project outcomes
- Enhanced project outcomes using machine learning techniques including model development and training with PyTorch, aligned with industry standards
- Developed an in-depth understanding of model deployment on AWS to ensure seamless integration and scalability

Microsoft

Microsoft Student Ambassadors

Remote
Sep 2023 - Present

- Mentored new Ambassadors, helping them understand program goals and improve their technical skills, fostering a positive learning environment
- Participated in quarterly projects organized by Microsoft Program Managers, contributing to successful project outcomes by applying advanced data wrangling and feature engineering techniques
- Hosted workshops on Data Wrangling, Feature Engineering, Machine Learning, AI, PowerBI, and Azure technologies, teaching more than 300 students and enhancing their technical proficiency, with a focus on practical applications of machine learning and AI concepts
- Applied state-of-the-art research techniques in AI and machine learning during workshops, leveraging tools such as PyTorch, TensorFlow, and Keras

DeepLearning.AI

Tester Jun 2024 - Present

Remote

- Tested and provided feedback on courses and materials, leading to improved quality of DeepLearning.AI offerings
- Ensured the accuracy and relevance of educational content for a global audience, enhancing learner satisfaction

Projects

Automated Attendance System

Jan 2024 - Jan 2024

- Implemented facial recognition using OpenCV and DeepFace
- Designed scalable PostgreSQL database
- Developed automated reporting and email notification system

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

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 2024 - Jun 2024

- Django
- suggestion Implemented NLP-powered job descriptions Hosted the application on Microsoft Azure for scalability and

reliability Achieved 1000+ user interactions within the first week of launch

Movie rating prediction using Matrix Factorization

- Derived update rules for Weighted Alternating Least Squares and predicted
- missing user ratings for MovieLens data to achieve a 62 % better MSE performance than baseline model.

Transfer learning for pet classification

- Used pretrained MobileNet V2 model (trained on ImageNet dataset) as a feature extractor and trained additional new layers to classify cats and dogs. Applied freezing on pretrained layers and replaced last layer to achieved a classification accuracy of 99 %.

Movie rating prediction using Matrix Factorization

- Derived update rules for Weighted Alternating Least Squares and predicted missing user ratings for MovieLens data to achieve a 62 % better MSE performance than baseline model

Image classifier for the SVHN dataset

- Built a CNN classifier model with 3 convolutional layers and 2 fully connected layers for digit recognition on street view images. Applied MaxPooling, BatchNormalization, Dropout and Early Stopping callback techniques to increase the validation accuracy on baseline from 55 % to 89.55 %.

Skills

- Python, Java, R, C/C++, MATLAB, Mathematica, SQL (MySQL, SQLite), PHP, Perl, HTML, CSS, TypeScript, XML, JSON, Visual Basic, JavaScript, Bash
- PyTorch, TensorFlow, Keras, OpenCV, NumPy, pandas, Matplotlib, scikit-learn, SymPy, Spark, Hadoop, Hive, Cassandra, Git, Jupyter, Docker, PyCharm, Django, Selenium, AWS Cloud Services, Azure
- Regression, Classification, Ranking, Recommendation Systems, Clustering, Dimensionality Reduction, Bagging, Boosting, Feature Engineering, Neural Networks (CNN, DNN, LLM), Deep Learning, Computer Vision, Natural Language Processing (NLP), Optical Character Recognition, Data Science, Data Wrangling, Data Visualization, Statistical Analysis, Predictive Modeling, Statistical Modeling, Model Deployment, Web Scraping, Content Automation,
- Linux, Windows

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):

Extra Academic Activities

- Member of IEEE computer society, student branch
- Selected for Amazon ML Summer School (2024)
- Selected for AWS AI & ML Scholarship (2nd Level)
- Ranked in the top 5 at NSUT National Hackathon
- Solved 700+ problems on competitive programming platforms and have a 1600+ rating on LeetCode

Coursera Certification

- **Neural Networks and Deep Learning, Structuring Machine Learning Projects, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization, Convolutional Neural Networks, Sequence Models, Deep Learning Specialization** (Deeplearning.ai)
- **GAN Specialization, TensorFlow in Practice**
- **Applied Data Science with Python** (University of Michigan)
- **Data Visualization** (University of Illinois)