ASTHA TRIPATHI

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SKILLS

Technical: C++ | JavaScript | Node JS | Azure DevOPs | Python | C# | SQL | ML | DL |.NET Framework | AWS | Git
Certifications: Supervised Machine Learning: Regression and Classification, Coursera, Aug 23 | Using Python to Interact with the Operating System, Coursera, Feb 23
Accomplishments: AWS AI & ML Scholar | Google FooBar 2023 Challenger | GeeksForGeeks Technical Scripter '23 Top 20 | GVDSP Scholar

WORK EXPERIENCE

Microsoft Bengaluru, India
Software Engineering Intern Jun 24 – Jul 24

- Teamed up to enhance the accuracy of Microsoft's search results to improve customer satisfaction. Currently developing an automation tool within the Microsoft Search Customization Team aimed at automating the analysis of customer dissatisfaction (DSATs).
- Anticipate a marked improvement in search result precision, leading to elevated customer experience and satisfaction upon project completion and reducing the DSAT triage time taken by the team by 60%.

Omdena, Aswan Local Chapter (Open Source) Remote
Machine Learning Intern Feb 23 – Mar 23

- Collaborated in developing an open-source app for detecting hate speech based on community, religion, and gender.
- Facilitated building a robust machine learning model using NLP techniques by aggregating user data from 15+ sources and annotating 100,000 sentences with 5 risk levels.
- Designed the app solution on the AWS platform, gaining valuable experience in the deployment and testing phases.

PROJECTS

***EcoEcho* - Deep Audio Classifier** Nov 23 – Dec 23

- Achieved ~97% accuracy with a TensorFlow-based CNN for Capuchin bird call classification, integrating optimized audio analysis using Tensorflow I/O by segmenting 3–4 minute clips into 3-second windows.
- Implemented spectrogram visualization and applied the trained deep learning model to each segment to efficiently identify Capuchin bird calls, providing binary output of 1/0 for their presence or absence.
- Engineered to pinpoint high-density Capuchin bird areas, crucial for biodiversity and ecosystem health assessment.

***FeelSight* - Emotion Detector using Image Classification** Jan 23 – Feb 23

- Developed a user-centric emotion detector utilizing CNNs, Keras, and Tensorflow libraries and featuring innovative 3D pooling layers to enhance emotional comprehension, especially for individuals with visual impairments.
- Leveraged technical expertise to successfully classify emotions into negative and positive categories, aligning technology with empathy. Envisaged tool aims to emotionally support 83% of people with sight loss in the future.

EDUCATION

VIT BHOPAL UNIVERSITY Bhopal, India
Bachelor of Technology in Computer Science, specialization in Cloud Computing & Automation Expected Jul 2025
Cumulative GPA: 9.54/10

MARIAMPUR SENIOR SECONDARY SCHOOL Kanpur, India
Class XII - 94.2% | Class X - 95% May 20

ADDITIONAL INFORMATION

Languages: Fluent in English and Hindi; Limited Working Proficiency in Spanish
Extracurriculars: Actively enhancing Computer Science knowledge and writing skills through technical competitions and Medium articles, fostering accessibility to Cloud technology.