

Anshu Reddy Ashanna

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EDUCATION

The George Washington University
Master of Science in Computer Science
GPA: 3.86/4.00

Washington DC
May 2026

Vellore Institute of Technology
Bachelor of Technology in Computer Science and Engineering and Business Systems
GPA: 8.16/10.00

Vellore, India
June 2024

Relevant Coursework: Machine Learning, Data Science, Neural Networks and Deep Learning, Big Data and Analytics, Computer Vision, Software Engineering, Cloud Computing, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, Java, C, C++, JavaScript, HTML/CSS.

Frameworks & Libraries: TensorFlow, Pandas, PyTorch, Keras, Scikit-learn, NumPy, Seaborn, Matplotlib, Flask, OpenCV

AI & ML: Generative AI, Natural Language Processing, Computer Vision, Reinforcement Learning, LLM's.

Developer Tools: Visual Studio, Google Collab, Jupyter, PyCharm, JIRA, Git, Microsoft 365, Tableau, AWS, PowerBI, MySQL

Gen AI & LLM Applications: ChatGPT, Claude, Gemini, AWS (Q, PartyRock, Bedrock, SageMaker)

Design Tools: Figma, Adobe XD, Marvel, Miro, Lucid chart, Canva

WORK EXPERIENCE

The Smart Bridge

AI Extern

Remote
May - July 2023

- Leveraged facial recognition and computer vision techniques using Python to detect blinks with 89% accuracy, compute eye aspect ratio, and track eye movements precisely in real-time.
- Triggered on-screen alerts and audio messages when blink counts deviated from average (i.e., if number of blinks is lower or greater), providing immediate feedback to users about eye fatigue or potential issues.

TECHNICAL PROJECTS

Photo Restoration Using LoRA Fine-Tuned Diffusion Models | Python

2025

- Designed and fine-tuned a Stable Diffusion model with LoRA to automatically repair damaged photos containing scratches, fading, and water stains.
- Generated training dataset of 100-150 images with synthetic damage using Hugging Face Diffusers and PEFT libraries in Python to adapt the model efficiently on Google Colab GPUs, minimizing computational cost.
- Targeting PSNR above 25db and SSIM over 0.85 to deliver professional restoration quality and visually natural images.

COVID-19 Impact on American Nutrition Patterns | R, Statistical Modeling

2025

- Analyzed post-pandemic NHANES dietary data to evaluate whether demographic nutrition patterns persisted after COVID-19
- Performed EDA, ANOVA Chi-Squared tests, T-tests, linear and logistic regression to study protein, sodium, and sugar intake differences
- Uncovered significant differences in gender, race, and income remain, while highlighting widespread failure to fulfill nutrition criteria.

Weather Analytics Power BI Dashboard | Power BI

2025

- Built an interactive dashboard integrating live weather and AQI data through dynamic API and M-Query connections
- Visualized temperature trends, wind, humidity, pressure, forecasts, and air quality using cards, line charts, and filters
- Delivered a clean, user-friendly analytics dashboard enabling location-based insights and real-time environmental monitoring

Earlier Detection of Parkinson's Disease Using Deep Learning Techniques| Python

2024

- Designed a convolutional neural network (CNN) model to predict Parkinson's disease using brain MRI scans achieving 95% accuracy rate by training on over 400 neuroimaging datasets.
- Integrated web application model using HTML/CSS, allowing real-time user diagnosis and early intervention for improved patient outcomes.

CERTIFICATIONS

- Amazon Web Services (AWS) AI Practitioner (September - November 2025)
- Amazon Web Services (AWS) Cloud Practitioner (May - August 2023)
- Smart Bridge - Artificial Intelligence Powered by Google Developers (May - July 2023)