Shreyak Mukherjee

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Summary

Dedicated Machine Learning and Deep Learning professional with a strong foundation in computer science. Proven ability to develop, train, and deploy intelligent solutions that create real-world impact through Python, TensorFlow, PyTorch, and Scikit-learn. Experienced in computer vision, NLP, and predictive analytics, building end-to-end systems. Skilled in data preprocessing, evaluation, hyperparameter tuning, and deployment with Streamlit, Flask, and Docker. Seeking roles in AI/ML research, model development, and collaborative innovation.

Education

Dr. B.C. Roy Engineering College, Durgapur 2022 – 2026
MAKAUT WB, B.Tech - Computer Science and Engineering - ***CGPA - 8.4*** *Durgapur, West Bengal*

Durgapur Taraknath High School 2022
WBCHSE, Higher Secondary Education (10 + 2) - ***Percentage - 89%*** *Durgapur, West Bengal*

Durgapur Project Township Boys High School 2020
WBBSE, Secondary Education (10) - ***Percentage - 89.71%*** *Durgapur, West Bengal*

Technical Skills

- **Programming Languages**: C, C++, Python, Java, SQL
- **Libraries/Frameworks**: PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV
- **Developer Tools**: Azure Cloud, Docker, VS Code, Jupyter, Google Colab, PowerBI, MySQL
- **Relevant Coursework**: DSA, DBMS, OOP, AI, ML

Projects

Attention-Enhanced GCN with SPP for UAV-Captured Plant Imagery May 2024 – Apr 2025

- Engineered an attention-augmented Graph Convolutional Network (GCN) integrating EfficientNet-B0, ShuffleNetV2, and Spatial Pyramid Pooling (SPP) for real-time UAV-based plant disease identification.
- Designed a hybrid architecture featuring multi-branch spatial feature fusion and graph-based relational reasoning for robust aerial image understanding.
- Enhanced resilience to occlusion, scale variations, and fine-grained symptom localization; deployed an end-to-end Flask-based web application for field-ready diagnostics.

Sentiment Analysis of Restaurant Reviews [Project Link] Jan 2025 – Mar 2025

- Developed a sentiment classifier using TF-IDF and Random Forest, deployed via Streamlit for restaurant review analysis with 85.5% accuracy.
- Streamlined customer feedback workflows by automating sentiment insights, reducing the need for manual processing.

Image Classification Web Application [Project Link] Jul 2024 – Sep 2024

- Built a Streamlit app for image classification using a custom CNN and MobileNetV2 on CIFAR-10, enabling model selection and live predictions, achieving 84.77% accuracy.
- Developed an interactive interface supporting instantaneous inference, enhancing accessibility for non-technical users in practical scenarios.

Coding Profile

- Completed Coding Ninjas' C++ DSA & Algorithms course.
- Solved over 100 problems on LeetCode.

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900) – Microsoft
- Mastering Data Structures & Algorithms using C and C++ – Udemy
- Java Programming Certification – IIT Bombay (Spoken Tutorial Project)

Achievements

- Awarded **Best Paper** at the **International Conference** on **Web 6.0 and Industry 6.0 (WIN 6.0, 2025)** for presenting "*An AI Tool for Text-to-Image Generation Model.*"
- Advanced to the college-level round of **Smart India Hackathon 2024** as a core team member, developing an AI tool for speech-to-ISL and ISL-to-speech translation.
- Awarded the **7th-year Ankan Ratna** in Painting with First Division and Distinction by Bangiya Sangeet Parishad, West Bengal. (View Certificate)