DEBJIT MANDAL

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EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha *2022 - 2026*
B.Tech, Computer Science and Engineering CGPA: 9.12

EXPERIENCE

CAMPUS AMBASSADOR, IMUNA *JULY, 2023- AUGUST, 2023*

- Promoted IMUN Online Conferences in different schools/universities and got 10+ registrations.
- Best Intern for a week.

PROJECTS

- **DSH:** Command-Line shell made using C++.
  - Implemented custom command parsing for user-defined commands.
  - Handled concurrency with multithreading for running background processes.

- **Brain Tumor Detection:** A project that leverages deep learning techniques to automate the detection of brain tumors from MRI images.
  - Utilized Convolutional Neural Networks (CNN) for image classification.
  - Deployed the model using TensorFlow for real-time analysis.

- **CIFAR-10 ResNet Classification:** A project which focuses on classifying images from the CIFAR-10 dataset using a Residual Network (ResNet) architecture.
  - Designed and trained a deep Residual Network (ResNet) model for image classification.
  - Implemented data augmentation techniques to enhance model robustness.

- **TrafficVisionAI:** Real-Time Traffic Sign Recognition and Driver Assistance using AI.
  - Integrated traffic sign recognition using TensorFlow and OpenCV.
  - Developed lane detection and collision warning systems.

- **MoodMelody:** Real-time emotion detection and content recommendation system.
  - Implemented emotion recognition using TensorFlow/Keras.
  - Integrated Spotify API for personalized music recommendations.

SKILLS

- **Programming Languages:** Python, JAVA, C/C++, JavaScript, Rust, Go
- **Web Technologies:** HTML, CSS, React.js, Node.js, Django
- **Tools:** Git, Docker
- **Frameworks & Libraries:** TensorFlow, OpenCV, scikit-learn, Pandas, NumPy
- **Databases:** SQLPlus, MongoDB