Ankan Halder

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Experience

FIS Global Gurugram,India
Software Engineer 1 *June 2022 – Present*

- Domain: Banking , Teams: RCC Tandem and RCC IBM
- **Technology Stack Applied** | *P*ython, Git, SQL, TACL, Mainframe, Windows Server
- **Software Build and Deployment**: Responsible for compiling, building, packaging, and shipping for software deliverables for internal as well as external customers and automated the shipment process using Python scripts, reducing manual efforts and errors.
- **DevOps and Process Improvement**:Worked on DevOps efforts for products such as Data Navigator, Fraud Navigator, Connex IBM, Connex Tandem, and Settlement. Optimized the workflows, improving overall team productivity.
- **Automation and Scripting**: Maintained and fixed bugs in Python scripts used for shipment automation and developed custom scripts to manage the build and release pipeline efficiently.
- **Server and Access Management**: Managed Windows servers for hosting shipment deliverables and handled server access control using tools like Cornerstone.Ensured the availability and security of resources used in software deployment.
- **Award and Recognition**: Received Above and Beyond Team Award in Q1 2023 and in Q1 2024

Chegg India Pvt. Ltd Kolkata,India
Subject Matter Expert in Computer Science, Freelancer *Apr. 2018 – Aug. 2019*

- Involved in solving technical questions on computer science as a subject matter expert.

Education

University of Texas at Austin TX,USA
Masters of Science in Computer Science , Ongoing *Aug. 2025 – Present*

Indian Institute of Engineering Science and Technology,Shibpur Howrah,India
Bachelor of Technology in Information Technology , CGPA 8.84/10 *Jun. 2018 – Jun. 2022*

Technical Skills

Languages: C/C++,Python, SQL
Frameworks: Tensorflow, Keras
Developer Tools: Git, VS Code, Visual Studio, PyCharm, Windows Server,MongoDB
Libraries:NumPy, Pandas , Matplotlib

Projects

Speed Estimation of Vehicles in video stream | *Python, Machine Learning* | Github:Vehicle Speed Aug 2021 – May 2022

- Developed a Python-based system for vehicle speed estimation from video streams using YOLOv3 (You Only Look Once version 3), a state-of-the-art object detection model.
- Utilized YOLOv3 for accurate vehicle detection in video frames, followed by tracking individual vehicles across frames to compute their speed.
- Integrated the system with a motion estimation algorithm to estimate speed based on vehicle displacement and time between frames.
- Used OpenCV for video processing and Matplotlib for visualizing vehicle speeds and detection results in the video stream.

Face Mask Detection Using Deep Learning | *Python,Deep learning*| Github:Facemask Oct 2020 – Dec 2020

- Developed an intelligent face mask detection system using MobileNetV2, a lightweight deep learning model, to efficiently classify whether individuals are wearing a face mask or not.
- Trained the model using a dataset of images containing people with and without masks, employing data augmentation techniques to improve model generalization and robustness.
- The system provides real-time face mask detection using webcam , displaying immediate results—mask or no mask—on the screen.

GUI Development of a Simulator for 8-bit Ribosomal Computing | *QML,C++*| Github:GUI Mar 2020 – Jul 2020

- Developed and deployed a 32-bit Windows application for simulating 8-bit Ribosomal Computing, with a focus on providing an intuitive graphical user interface (GUI) to interact with the simulator.
- Designed the GUI using QML (Qt Modeling Language) and implemented backend functionality in C++ to ensure smooth integration between the interface and the simulator logic.
- The simulator provided a visual representation of ribosomal processes in computing, modeled after computational theories inspired by biological ribosomes, enabling users to simulate and study various computational operations.