SHUBHAYAN SAHA

Washington D.C, USA | shubhayans@gwu.edu | +1 202-629-8339 | github.com/ShubhayanS
linkedin.com/in/shubhayans

EDUCATION

The George Washington University, School of Engineering & Applied Science   **Washington DC, USA**
Master of Science in Data Analytics   **June 2023**
Memberships: GW Data - Education Coordinator & Graduate Student Ambassador.

SRM Institute of Science and Technology   **Chennai, TN, India**
Bachelor of Engineering in Computer Science and Engineering   **June 2021**
CGPA: 8.4/10.

TECHNICAL SKILLS

- Python, Java, C, C++, Html, CSS, JavaScript, PHP, Keras, TensorFlow, OpenCV, Scikit-learn, Flask, FastAPI, PySpark, Hadoop, Bootstrap, SQL, Firebase, Git, Bash, Docker, Heroku, Azure, AWS, Google Cloud Platform, IDEs, PowerPoint, Microsoft Office Suite.

RELEVANT WORK EXPERIENCE

George Washington University   **Washington, DC, USA**
Research Assistant   **September 2021 - Present**

- Analysed N3C Omics Covid 19 Data of 1.3M+ by filtering, organization, integration, and data quality assessment to understand effects of Drugs concerning diseases.
- Visualized, Planned, and constructed a Machine Learning Model for prediction of 10+ Rare Diseases on HCCI Data with Python as a Senior Data Scientist of project.

Gaius Networks   Chennai, TN, India
Full Stack Python Developer   **January 2019 - August 2021**

- Built an automated CV Analysis and Job Matcher leveraging a Regression Model and automated hiring process of companies by 80%.
- Developed and implemented 10+ scripts along with API creation for various tasks as detection of severity risk of covid based on geolocation of individual, assessing reviews of upcoming movies, etc.
- Predicted 2020 Presidential Election with 92% accuracy and monitored results in a web-app in real time.
- Communicated with health officials of AIIMS, Delhi to operational behaviour for a web-app based questionnaire along with mapping, database query creation for understanding patient and drugs orders in hospital.

National Aerospace Laboratory, CSIR-SRTP   Bangalore, KA, India
Artificial Intelligence Research Intern   **June 2020 - August 2020**

- Analysed Detection of Cyclone Centres from NAL Satellite Images deploying a custom trained OpenCV model with 86% Accuracy.
- Wrangled, Monitored, and Assessed Weather, and Imaging Data to understand major affecting cyclone locations.

SRM Institute of Science and Technology, SPARC   Chennai, TN, India
Undergraduate Research Assistant   **June 2019 - January 2020**

- Built a Deep Learning Capsnet Model with team for early prediction of Diabetic Retinopathy with 94.4% accuracy.
- Examined Hospital Dataset, worked on pre-processing, data augmentation of DR images for feature extraction.

TECHNICAL PROJECTS

Machine Learning | CNN | Data Analysis, Mental Health ML   **January 2020 - December 2021**

- Performed as a Student Researcher under faculty of SRM and collaborated along with International Universities of Singapore and Queensland University on topic of Mental Health using Deep Learning to predict Alzheimer's.

Data Analysis | Machine Learning | Web Dev, Suraksha COVID19   **January 2019 - December 2020**

- Designed and developed full-stack web-app integrated with ML-based COVID 19 prediction model and provides live information to people. It also shows daily headlines, announcements, and COVID19 test centres.

Computer Vision, Trash It   **January 2018 - December 2019**

- Engineered an IoT and ML-based Project for Mozilla Hackathon held in college for effective trash disposal based on Biodegradable and Non-Biodegradable. Implemented, trained, and deployed machine earning model with app-based UI is designed for admin panel access of smart dustbins around city.