AYUSH KUMAR

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EDUCATION

B.Tech & M. Tech Dual Degree, IIT Kharagpur, 7.65

July 2016 - May 2021

Electronics & Electrical Communication Engineering (M.Tech in Visual Information & Embedded System)

AISSCE, St. Michaels High School, 91.8%

2016

AISSE, St. Dominic Savio's High School, 9.8

2014

EXPERIENCE

Software Developer, ABB Global Industries & Services Pvt. Ltd.

Jul 2021 - Jun 2023

- Reduced release time by 60% using **Terraform**, Python, and Azure tools to automate infrastructure and deployment
- Utilized **Selenium library** and **Robot Framework** to automate tests resulting in 70% reduction in testing duration
- Worked as a **React** developer on the Asset Performance Management Suite (APM), which monitors assets, prescribes maintenance actions, and improves equipment utilization for process and utility industries.
- Contributed on development of APM Dashboard and SLD using react to analyze the behaviour of the real-time data
- Performed performance based improvement on testing result for qualifying APM prediction module for market release
- Developed an Email Notification Service using .NET and React within Genix APM Predict, providing timely alerts to users about asset health and status changes through detailed mail report

Data Science Intern, L&T Infotech

May 2019 - July 2019

- Created a webpage using **Javascript** to facilitate the drawing and storing of handwritten digits as a training dataset and utilized **TensorFlow** to develop and train convolutional neural networks for the recognition handwritten digits
- Thoroughly evaluated the model's performance using diverse datasets, achieving a mean accuracy rate of 96%
- Implemented a chatbot utilizing TensorFlow, integrating RNN model with seq2seq architecture, softmax loss function, and multi-layer perceptron and tested it by tuning its hyperparameter for better performance beneficial for the team

PROJECTS

De-noising Techniques in Image Processing

Sept 2020 - April 2021

- Explored and distinguished denoising methods in image processing like Sparse Representation, BM3D, and DnCNN
- Analyzed about DVS which captures fast-moving objects & ICM algorithm to optimize the model and remove noise
- Created denoising autoencoder with Conv2D, Maxpooling2D, Conv2Dtranspose, Binary Entropy, Adam Optimizer

Emotion Detection Analysis using Keyboard

Jul 2019 - Nov 2019

- Gathered data from 100 students where they were prompted to type sentences, simultaneously inputting their emotions
- Extracted various features like typing speed, errors made for analyzing different emotions like sad, happy, neutral
- Authenticated the user using NN model with self-organizing maps, one-class SVM to achieve an accuracy of 78%

SKILLS

- Proficient: C++, Python | Familiar: Javascript, Django, Java, React, NET, Angular, Terraform, Robot, Selenium
- Software & Tools: Adobe Photoshop, Adobe Premiere Pro, Cadence, Numpy, OpenCV, Github, ChatGPT
- Relevant Courses: Programming and Data Structures, Data Structures and Object Representation, Digital Electronic Circuits, Probability and Stochastic Processes, Matrix Algebra, Neural Networks and Applications, Artificial Intelligence, Digital Image Processing

POSITION OF RESPONSIBILITIES

Sub-Editor, Awaaz, IIT KGP

- Analyzed problems pertaining in the campus and took initiative to reach out to the administration and resolve them
- Worked on the frontend and was involved in regular updates of articles, interviews, and analysis on the website
- Involved in sponsorship and marketing team, handling online and offline local sponsors for newsletter and website

ACHIEVEMENTS

• Rewarded with rising star and Xtra milers award for outstanding performance in ABB for a duration of 2 years