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AI enthusiast with Machine Learning Specialization with a Master's in Technology with a major in Software Engineering, driven by a passion for leveraging expertise in cutting-edge technologies. Seeking opportunities to apply skills and foster innovation in a professional setting.

Technical Skills

Programming Languages
- Python
- SQL

Databases
- MySQL
- MongoDB

Machine Learning and Deep Learning
- Tensorflow
- Kears
- SciKit Learn

Data Science
- Feature Engineering
- Predictive Modeling and Statistical Analysis
- Model Evaluation and Optimization

Data Analytics
- ETL (extract, transform, load)
- Data Wrangling
- EDA (Exploratory Data Analysis)
- Data Mining
- Data Preprocessing

Data Visualization
- Matplotlib
- Seaborn
- Tableau
- IBM Cognos Analytics

Tools
- Microsoft Excel (Advanced)
- Microsoft Office (PPT, WORD)

Education

Master of Technology - Software Engineering **September 2023**
VIT-AP University Amaravati, Andhra Pradesh, India
Cumulative GPA: 7.58

Certifications

IBM AI Engineering Professional Certificate **April 2024**
Authorized by IBM , Issued through Coursera

Machine Learning Specialization **February 2024**
Authorized by DeepLearning.AI and Stanford University, Issued through Coursera

IBM Data Analyst Professional Certificate **November 2023**
Authorized by IBM , Issued through Coursera

Data Science with Python **April 2023**
Authorized and Issued by Simplilearn

Internship

Python Developer Intern **November 2022 - April 2023**

Bhanu Scientific Systems Pvt.Ltd Hyderabad, Telangana, India

Responsibilities

- Collaborated with the research team to understand their requirements in programming while working on Thermo-Calc software.
- Developed efficient Python code to streamline the data creation process, enhancing the team's productivity and reducing processing time by 70%.
- Implemented Extract, Transform, Load (ETL) processes on data, ensuring data accuracy and consistency throughout various stages.
- Identified patterns and insights within the data, contributing to improved decision-making for the research team.
- Utilized data visualization tools to present results effectively, enhancing the team's understanding of complex datasets.

Skill Set

- Python (Pandas, Matplotlib, tc-python), Data Manipulation, and Microsoft Excel

Projects

Online Voting System with Face Recognition and ID Card Detection **May 2022**

- Developed a sophisticated model for detecting manipulated IDs and verifying users through facial recognition in the project using Machine Learning.
- Implemented a system that involved capturing images of individuals with their Voter ID cards through a camera, followed by meticulous processing and comparison against the stored database.
- Demonstrated strong attention to detail and accuracy in programming to ensure that users are prevented from proceeding if the image doesn't correspond to the legitimate voter database or resembles any fake ID database generated by the GAN model.
- Additionally, introduced an extra layer of security measures to safeguard the integrity of the voting system and effectively minimize the risk of fraudulent activities. Throughout the project, exhibited leadership skills in orchestrating a comprehensive solution that addresses critical issues in the electoral process.
- Skills Set - Python (OpenCv, Keras, Pandas, Numpy) and MySQL

Inverse Halftoning Using Machine Learning **July 2021**

- Developed an innovative image enhancement model using SRCNN (Super-Resolution Convolutional Neural Network) to restore high-resolution images from halftones.
- Implemented the SRCNN in TensorFlow, training it on low-resolution images and evaluating performance using metrics such as PSNR, MSE, and SSIM.
- The model involves preprocessing, feature extraction, non-linear mapping, and reconstruction, enabling seamless restoration and acquisition of high-quality images from low-resolution sources.
- This project showcases expertise in deep learning, image processing, and the application of advanced neural networks in various fields. Explored diverse fields, including medical imaging, art restoration, forensic analysis, authentication processes, and quality control.
- Skills Set - Python (Keras, Pillow, Pandas, Numpy)

Declaration

I hereby declare that the information mentioned above is true and best of my knowledge.