Akash S

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🪪 OBJECTIVE

I am an electronics and communication engineering graduate interested in data science. After completing a course through Guvi, I developed Python and data science skills. I am excited to apply these skills at Novacis Digital and contribute to impactful data-driven projects.

🎓 EDUCATION

IIT-M GUVI
*IIT-M Advanced Programming Professional & Master Data Science*
01-2024 – 05-2024

Kumaraguru College of Technology
B.E Electronics and Communication Engineering
12-2020 – 04-2024 | Coimbatore, India
  Graduated with a C.G.P.A of 8.7

🧠 SKILLS

Python | **SQL** | **Numpy** | **Pandas** |
Visualization | **Statistics** |
Machine Learning: Scikit-Learn |
Deep Learning: Pytorch

📇 CERTIFICATES

- Python Basics for Data Science - edX ⌨
- AI for Everyone: Master the Basics - edX ⌨
- SQL Skill Assessment(intermediate) - Hackerrank ⌨

📁 PROJECTS

Industrial Copper Modelling ⌨
Key Skills: Python, Numpy, Pandas, Scikit Learn
  Objective: Build and deploy a classification and prediction model for copper modelling using real-world data.
  Data Preparation: Utilized Python, NumPy, and Pandas for data cleaning, data analysis, and data analytics. Employed statistics and visualization techniques to explore data patterns and derive insights.
  Model Optimization: Applied machine learning techniques with GridSearchCV and cross-validation to fine-tune the model's performance. Evaluated accuracy using metrics such as R^2, MAE, and RMSE.
  Evaluation & Deployment: Achieved 95% accuracy in classification and prediction tasks. Deployed the model and presented results using Streamlit for effective visualization and communication.

PhonePe Pulse Data Visualization ⌨
Key Skills: Python, SQL, Plotly
  Objective: Extracted PhonePe Pulse data, processed it for insights, and visualized the findings.
  Data Processing: Utilized Python and SQL for data extraction and processing to derive valuable insights and information.
  Visualization: Created interactive dashboards using Plotly and presented the results in Streamlit for effective visualization.
  Documentation: Documented and recorded insights from various fields to support detailed analysis.

Generative Adversarial Network ⌨
Key Skills: Python, PyTorch-Torchvision
  Objective: Develop a GAN network to generate realistic fake images from source data.
  Data Preparation: Data was resized, center-cropped, and normalized for uniform dimensions, centered images, and scaled pixel values, essential for stabilizing and enhancing GAN training.
  Model Architecture: The GAN comprises a generator and a discriminator, both built using CNNs. The generator creates fake images from noise, while the discriminator distinguishes between real and generated images.
  Training: After 30 epochs of training, the model successfully generated realistic fake images.