Shubham

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Objective

Master's graduate in Artificial Intelligence passionate about creating innovative solutions in AI, machine learning, and software development. Adept at applying machine learning models and statistical methods to solve real-world problems. Currently seeking opportunities to grow and contribute in creating impactful projects.

Projects and Publications

Master's Projects

- **Image Popularity Prediction (Thesis):** Designed a comprehensive multimodal architecture to predict image popularity on Reddit by integrating computer vision and natural language processing. Developed a custom dataset by scraping metadata, captions, and popularity metrics using the Reddit API. Conducted in-depth analysis using Pretrained ImageNet models, NLP models, and compared multiple baseline architectures. Results highlighted the critical factors influencing image virality. [View Thesis]
- **Predicting Genes Responsible for Brain Cancer:** Applied machine learning models to predict genes associated with brain cancer. Used PCA and t-SNE for visualization and dimensionality reduction.
- **Race Prediction in Public Shootings:** Built machine learning classifiers to predict victims' race. Employed PCA and t-SNE for dataset visualization.
- **Potential hazardous and non-hazardous asteroids:** Designed neural network to predict if an asteroid is hazardous to earth.
- **Boe-Bot Grid Navigation (Arduino):** Programmed a Boe-Bot to navigate a grid-based matrix autonomously by developing path-planning algorithms.

Bachelor's Projects

- **Monitoring Cyber Attacks and Analysis of Breaches:** Used stochastic modeling to predict cyber breaches. Published findings in the *International Journal of Recent Technology and Engineering (IJRTE)*. [View Paper]
- **Remote Administration Tool (RAT):** Designed a tool for remote system access. Published findings in a peer-reviewed journal. [View Paper]

Technical Skills

- **Programming Languages:** Python (NumPy, pandas, scikit-learn, TensorFlow, Keras, PyTorch), C++, C, Java
- **Data Visualization:** Matplotlib, Seaborn
- **Others:** SQL (MySQL), Git, Arduino, Microsoft Office

Education

Master's in Artificial Intelligence
Charles University, Prague
Bachelor's in Computer Science
SRM University, Chennai

Extracurricular Activities

- Represented school at state-level badminton tournaments.
- Represented school at state level science exhibition.