Shreyas Narasipura Indhudhara

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Education

- **Syracuse University** — Syracuse, NY
  Master of Science in Computer Science; — *Expected May 2024*
- **REVA University** — Bangalore, India
  Bachelor of Technology in Computer Science; GPA: 3.8 (8.34/10.0) — *Aug 2015 - May 2019*

Skills Summary

- **Languages**: Python, C, C++, Java
- **Cloud & Tools**: Google cloud platform (GCP), Amazon: AWS, SageMaker, Kubernetes, Docker,Vmware, GIT, JIRA
- **Data Science & Miscellaneous Technologies**: PyLib(Sci-kit-learn, NumPy, Pandas, Matplotlib) ML - (Regression, Classification, Clustering, Ensemble methods) DL - (PyTorch, TensorFlow)
- **Data Science Pipeline** : (cleaning, wrangling, visualization, modeling, interpretation), Statistics, Time series, OOP, APIs
- **Miscellaneous**: Linux (Ubuntu, Kali-Linux), Flask, FastAPI, Model Versioning, CI/CD for ML

Work Experience

- **SDE intern** — Syracuse, NY
  CASE at Syracuse University — *October 2023 - January 2024*
  - Built a secure messaging system for UAV-GCS communication, ensuring messages are encrypted and reliable.
  - Implemented strong encryption to protect messages from unauthorized access or tampering, bolstering communication security.
  - Developed a script to automatically verify incoming messages, adding an extra layer of assurance for message integrity and source authenticity.
- **Analyst - Applied AI** — Bangalore, India
  Deloitte — *February 2021 - July 2022*
  - **Designed an end-to-end data science architecture** to replaced the client's obsolete design and improve the storage mechanism for faster access.
  - Analyzed and developed an end-to-end sale forecasting pipeline, deploying a Machine Learning algorithm that resulted in 84% accuracy and a 14% uplift in sales during the next financial year.
  - Automated feature generation process using python which led to saved human involvement time of nearly 24hrs/sprint.
  - Created various POC (proof of concept)- a internal projects in NVIDIA AI capability team with tech stack revolving around EDGE AI devices, Jetson Nano, and RIVA.
- **Software Engineer** — Bangalore , India
  TATA Elxsi — *November 2019 - February 2021*
  - Proficient in optimizing video and audio codecs, packet handling, and streaming protocols for seamless video playback on set-top boxesresulting in a 20% reduction in buffering time.
  - Conducted extensive testing and diagnostics, identifying and rectifying packet loss issues, ultimately achieving a 15% boost in video playback reliability.
  - Managed an RDK- B device involving 5G, Dual-band Wi-Fi for routers in the Taiwan region.
  - Developed data models facilitating storage of router configuration information in the cloud helps router operations to recover in case of failure.

Projects

- **Secure AI-Driven Kiosk Solution (Deep learning)**: Developed a secure and confidential AI-driven kiosk for a major fast-food chain, utilizing proprietary technologies such as NVIDIA Riva and Rasa frameworks. Implemented advanced speech recognition and natural language processing for a personalized ordering experience while ensuring data privacy and security. Demonstrated expertise in confidential project management, AI integration, and cutting-edge technology deployment.
- **Job predictor (Machine-Learning)**: Utilized my expertise to develop robust machine learning algorithms like Decision trees, K-means, and Logistic regression on real-time datasets. Through the use of K-fold cross-validation technique, I selected relevant variables and achieved an impressive accuracy of 82% on available training data sets. This enabled me to effectively support students in securing job placements.

Publications

Presented a technical paper about **"Comparative Study of Multiple ML Algorithms for Students Job Placement in University"** at the International Journal of Engineering and Advanced Technology 2019.