Christopher Mukkungal Geever

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Place: Fort Wayne, Indiana

Education

- **Purdue University, Fort Wayne** August 2023 - May 2025*
  Master of Science in Computer Science; GPA : 4.0/4.0
  Courses: *Design Analysis and Implementation of Algorithms, Natural Language Processing, Human Computer Interaction*
- **Indian Institute of Information Technology Kottayam** August 2018 - July 2022
  B.Tech in Computer Science & Engineering; GPA: 8.21/10
  Courses: *Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Databases, Bio-Informatics*

Skills Summary

Python, C, C++, SQL, Natural Language Processing, Object Oriented Programming System, Neural Networks, Computer Vision, Machine Learning, Deep Learning, Data Science, Data Analysis & Mining, Git, SpaCy, TensorFlow, Keras, PyTorch, MongoDB, Microsoft Azure Machine Learning

Experience

- **Cognizant** Bangalore, India
  Machine Learning Engineer *July 2022 - July 2023*
  - **Member of Data Science team.** Ideated Machine Learning / Deep Learning Products, strategies and enhancements.
  - Developed a robust defect classification/clustering model leveraging XGBoost, achieving an impressive accuracy surpassing 80%. This model effectively streamlined defect shortlisting for the testing team, optimizing their workflow and enhancing efficiency.
  - Engineered an advanced Image Recognition/object detection model using YOLO for an Automatic Driver Assistant software, attaining an exceptional Intersection over Union (IoU) score exceeding 0.55, contributing to enhanced safety and reliability in driver assistance systems.
  - Contributor of official blog forums 'AI for QA' which helped 100s of associates to gain insights on how AI can play a crucial role in the field of Quality Assurance.
  - **Skills :** Python, Pandas, Tensorflow, Pytorch AWS ML, Azure AI, NLP, Computer Vision
- **IBM** Bangalore, India
  Application Developer Intern *January 2022 - June 2022*
  - Responsible for the development and testing of CRM software powered by Oracle for a Fortune 500 client. Key contributions ensured the delivery of a high-quality solution tailored to the client's needs.
  - **AI Enhancements :** Designed software solutions that automated manual testing using AI and Web Scraping Techniques, resulting in significant efficiency gains for testing processes, leading to a 70% reduction in human effort.
  - **Skills :** Oracle Siebel, JavaScript, Beautiful Soup, Selenium
- **National Institute of Technology, Calicut** Kerala, India
  Deep Learning Intern *April 2021 - June 2021*
  - Conducted pioneering research on predicting the 2D structure of proteins (Contact Maps) using Deep Learning, leveraging a set of protein features. Contributions pushed the boundaries of protein structure prediction.
  - Collaborated in developing a proof of concept for Contact Map Prediction using attention networks, showcasing the potential of this innovative approach in the field of bioinformatics.
  - **Skills :** Tensorflow, keras, pandas

Projects

- **TEDLens : Elevating TED Talk Discovery** August 2023 - Present
  Tag/Topic Generation and Talk Recommendation System
  - Designed a context aware BERT-supported custom architecture that predicts tags/topics from TED Talk Transcripts, showing promising F1 score of over 0.5, which is notable considering the wide range of topics(450+ topics).
  - This model is capable of instantly and accurately generating tags for TED talks, effectively replacing 90% of the manual effort traditionally required for setting tags.
  - **Skills:**Python, PyTorch, pandas, Streamlit
- **University Recommendation System** January 2022 - April 2022
  Machine Learning-based recommendation system for university admissions.
  - Developed an ML-based recommendation system that predicts university admission chances for students based on user input. Achieved an accuracy range of 85% to 90% using the CatBoost model, resulting in accurate admission predictions for aspirants.
  - **Skills:**Python, Tensorflow, pandas, Streamlit

Publications

- **'CatBoost and Genetic Algorithm Implementations for University Recommendation Systems'** *In 2022 International Conference on Inventive Computation Technologies (ICICT)*, Kirtipur,Nepal, 2023, doi: https://doi.org/10.1109/ICICT54344.2022.9850798

Achievements

- Awarded with 'Rising Star' title within the Tech CoE Department of Cognizant in 2023 based on the valuable contributions to the team within a short span.