Kaveesh Khattar

+91 98193 79487 | kaveeshkhattar@gmail.com | kaveeshkhattar | KaveeshKhattar | kaveeshkhattar.github.io

EXPERIENCE

Myelin Foundry

Machine Learning Intern   June 2023 - July 2023

- Built a Tkinter UI Dashboard using Agile, reducing presentation prep time by 30%. Developed a driver wellness tool, collaborating for advanced trackers to build a robust biomarker dataset. Employed ML to classify driver wellness, optimizing performance through hyper-parameter analysis.

Stockal

Software Engineer   June 2022 - July 2022

- Optimising Tax Returns Workflow: Managed code base organization by working collaboratively with a cross-functional team to optimize and restructure 15 JavaScript files.

Cisco Talent Outreach

Web Developer   July 2018 - January 2019

- Solan: Launched Solan, a collaborative web app for learning through shared question bank creation. Developed with a Cisco mentor and a team of five classmates, it engaged 75% of users, promoting knowledge acquisition. Visit it here.

EDUCATION

PES University   Bengaluru, India

Bachelor of Technology in Computer Science – Specialisation in Data Science – GPA: **8.91/10**   June 2024
Coursework: DBMS, Data Analytics, Big Data, ML, Cloud Computing, NLP, Computer Networks, Operating Systems

Sri Kumarans Childrens Home   Bengaluru, India

Senior Secondary: **95.2%**   March 2020

SKILLS

- Languages: Python, HTML, CSS, JavaScript, SQL, Swift
- Frameworks: Git, SwiftUI, pandas, scikit-learn, Docker, Kubernetes, Flask, SQLite, PyTorch

PUBLICATIONS

- **Understanding the Psychological Needs at Play in Disinformation**
  - Implemented data augmentation by replacing words with synonyms to address class imbalance, used both traditional (Naive Bayes, SVM, XGBoost) and deep learning (transformer-based) approaches for a machine learning task, resulting in strong prediction quality with an 80% average accuracy across three classes. The research paper can be viewed here.

- **A Comparative Study of Model Architectures, Datasets, and Performance Metrics**
  - A comprehensive study which covers widely adopted model structures, prevalent datasets, and the optimization of performance metrics in the domain of text-to-image generation, highlighting crucial areas for model enhancement.here.

PROJECTS

- **PyTorch Image Classifier (MNIST Fashion Database)**
  - Developed an Image Classifier with PyTorch for MNIST Fashion, using torchvision, DataLoader, and conducting EDA.
  - Implemented a baseline model with cross-entropy loss, extended it with non-linearities, and created a CNN inspired by TinyVGG for improved accuracy. Demonstrated device-agnostic code, ensuring seamless CPU/GPU switching. View the notebook here.

- **Database Management System**
  - Implemented MySQL database with schema, relationships, constraints, and normalization for efficient data management. Developed a user-friendly Tkinter (Python) interface to enhance interaction with the database.

- **Web Development**
  - Personal Website: HTML, CSS, JavaScript to build personal website and hosted on GitHub Pages. Visit it here.
  - Sentiment Analysis Web App: Developed a web app (HTML, Flask) for CRUD operations with SQLite. Integrated real-time sentiment analysis using TFIDF, Naive Bayes, and SVM models. Containerized and deployed with Docker and Kubernetes for efficient management.

Position of Responsibility

- **Apple Developer's Group**
  Software Domain Lead   August 2021 - May 2022
    - Pitched club goals, outlined app capabilities and core CS concepts. Resulted in 55 new club sign-ups. Led a 5-member team, organized 5 CS Concept workshops (60 avg. attendance) and an App Development seminar (75 attendance). Achieved 90% engagement through interactive activities and group discussions.

Honors and Awards

- Prof MRD Scholarship - awarded to top 20% of students in the University (3 semesters)

- iOS Development Certificate: Click here.

- Trinity CEFR Level B1 Certified

- School Gold Medalist in National Cyber Olympiad