

Kaveesh Khattar

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EXPERIENCE

- **Myelin Foundry** Bengaluru, India
Machine Learning Intern June 2023 - July 2023
 - Built a Tkinter UI Dashboard using Agile methodology to demonstrating the company's product to investors. This tool facilitated a 30% reduction in presentation preparation time and enhanced investor engagement.
 - Developed a tool to monitor the wellness of drivers. Conducted an exhaustive literature survey to identify essential metrics for chronic inflammation assessment. Collaborated with an external company to secure advanced trackers and curated a robust 1000-row biomarker dataset.
 - Classified wellness of drivers into categories using machine learning models trained on the above dataset. Leveraged hyper-parameter analysis to increase the model's performance.
- **PES University** Bengaluru, India
Research Intern July 2022 - July 2023
 - Piloted on the publication titled 'Understanding the Psychological Needs at Play in Disinformation'. Resolved class imbalance, performed text preprocessing and model training and evaluation.
 - The paper has been accepted by the SSIC conference. [View it here.](#)
- **Stockal** Bengaluru, India
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** Bengaluru, India
Web Developer July 2018 - January 2019
 - Solan: Developed and launched Solan, a web application fostering learning through collaborative question bank creation. Under the guidance of a Cisco mentor, I worked with a team of five classmates, to deliver a platform that promotes knowledge acquisition through crowdsourcing. Solan garnered active participation from 75% of my classmates. [Visit it here.](#)

EDUCATION

- **PES University** Bengaluru, India
Bachelor of Technology in Computer Science – Specialisation in Data Science – GPA: **8.85/10** 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

PUBLICATIONS

- **Understanding the Psychological Needs at Play in Disinformation** July 2022 - July 2023
 - Performed data augmentation by creating new samples of input text, replacing words with their synonyms in text samples. This helped achieve an equal number of samples in each class, resolving class imbalance.
 - For the machine learning task, both traditional and deep learning approaches have been used. Selected Naive Bayes, SVM, XGBoost as baselines. Employed transformer based approach to derive deeper insights.
 - Achieved strong prediction quality. Furthermore, the deep learning approach exhibited an 80% average accuracy across three classes. [View it here.](#)

PROJECTS

- **Sentiment Analysis Web App**
 - Designed a web interface (HTML) and integrated it with a Flask backend. Integrated SQLite database support, allowing for seamless Create, Read, Update, and Delete (CRUD) operations on data.
 - Implemented sentiment analysis using Machine Learning models, including TFIDF with Naive Bayes and SVM, to provide real-time sentiment predictions.
 - Containerized the application using Docker for streamlined deployment and maintenance. Orchestrated the deployment with Kubernetes.
 - [View the project here.](#)

• Database Management System

• Course Project - Grocery Management System

- Designed and implemented a comprehensive MySQL database system, including schema development, relationship establishment, constraint implementation, and normalization, ensuring efficient data storage and retrieval.
- Created a user-friendly Tkinter (Python) interface for seamless interaction with the MySQL database, enhancing user experience.

• iOS Development

- Development using Swift: Learnt tools and languages over a 100 day course to build and deploy iOS, watchOS and macOS apps. View my certificate [here](#). View my projects [here](#).

• Web Development

- Development using HTML, CSS, JS: Learnt tools and languages to design and deploy a personal website that narrates my journey. Visit it [here](#).

POSITION OF RESPONSIBILITY

• Apple Developer's Group

Bengaluru, India

Software Domain Lead

August 2021 - May 2022

- Bootstrap: Presented the purpose of the club and my domain on the kind of apps they would be capable to build and core CS concepts they would learn by the end of a semester. This translated to 55 new sign ups of students for the club.
- Domain Lead: Led a team of five members, synergising their efforts to conduct five workshops on core CS Concepts with an average attendance of 60 people and a seminar on App Development with an attendance of 75 people. Implemented interactive activities and group discussions, resulting in an active engagement level of 90% during the seminar.

HONORS AND AWARDS

- Prof MRD Scholarship - awarded to top 20% of students in the University (3 semesters)
- Trinity CEFR Level B1 Certified
- School Gold Medalist in National Cyber Olympiad