

# Kaveesh Khattar

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## EXPERIENCE

- AT&T** Bengaluru, India  
Software Engineer Intern Feb 2024 - Jul 2024
  - Streamlined on-boarding for **50+ interns** as measured by a **30% decrease in time** spent in sync-up meetings, by developing a platform using **React.js, Spring Boot, PostgreSQL, and Docker** offering an in-house forum for tracking team progress.
  - Additionally, resolved roadblocks via a tech-related query forum and automated logistics such as access card approvals and conference room bookings to enhance the overall internship experience.
- Myelin Foundry** Bengaluru, India  
Machine Learning Intern Jun 2023 - Jul 2023
  - Researched and created a driver wellness tool, using **pandas, NumPy** and **scikit-learn**, achieving **85% accuracy** in **detecting chronic inflammation** by constructing a dataset with 5,000 samples and markers like Heart Rate Variability (HRV), skin impedance, and temperature, and employing traditional and deep learning algorithms for predictions.

## EDUCATION

- PES University** Bengaluru, India  
Bachelor of Technology in Computer Science – Specialisation in Data Science – GPA: **8.94/10**. Jun 2024
  - Coursework:** Data Structures & Algorithms, Computer Networks, Operating Systems, Databases, Big Data
  - Awards:** Prof. MRD Scholarship - awarded to top 20% of class (5 out of 8 semesters).
- Sri Kumarans Childrens Home** Bengaluru, India  
Senior Secondary (CBSE): **95.2%** Mar 2020

## SKILLS

- Programming:** HTML, CSS, JavaScript, TypeScript, Python, Java, Go, Swift, SQL, GraphQL, Node.js, Bash
- Machine Learning:** pandas, NumPy, scikit-learn, NLTK, fastText, spaCy, matplotlib, HuggingFace
- Cloud:** React.js, Next.js, Spring Boot, Kafka, MongoDB, Cassandra, Git, Docker, Kubernetes, AWS, Azure

## PROJECTS & RESEARCH

- Solan - Cisco Talent Outreach** [Live Link] [GitHub]
  - Accomplished **active participation from 60 CS students** as measured by engagement in collaborative question bank creation and class-wide quizzes, by developing and launching **Solan**, a web application built with two classmates and in **collaboration with Cisco**, using **HTML, CSS, JavaScript, Django, and MySQL** to enhance student learning.
- TeamFinder: Enhancing Team Discovery** [Live Link] [GitHub]
  - Built a web app to **help students find teams with known acquaintances** when the people they know are unavailable for events like hackathons by using **React.js, Spring Boot, and PostgreSQL (Supabase)**, with custom JWT authentication and Role Based Access Control (RBAC), containerized with Docker.
- TeachMate: Holistic Tuition Management** [Live Link] [GitHub]
  - Achieved **36 hours/year time savings** for teachers by building a **Next.js web app with PostgreSQL** to track student performance via interactive charts and generating student schedules **using backtracking** (& later memoized for dynamic programming). Secured **adoption by 8 users**.
- Understanding the Psychological Needs at Play in Disinformation (Springer SSIC)** [Paper] [GitHub]
  - Investigated the **underlying psychological drivers** behind the production of disinformation through machine learning (**Naive Bayes, SVM, XGBoost**) with **TFIDF Vectorization** & deep learning methods (**DistilBERT, spaCy with bert-base-cased**), achieving **82% accuracy**.
  - Enhanced model consistency with **DistilBERT** and interpretability with **LIME**, achieving **99.2% confidence** indicating high reliability, and making the model more understandable.
- A Comparative Study of Model Architectures, Datasets, and Performance Metrics** [Paper]
  - 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.
- Exploring Novel Image Generation via Script-Directed Scene Formation** [Paper]
  - Fine-tuned a Deep Fusion GAN model on user-provided images to generate them in new and realistic representations using labeled inputs and script-based prompts, featuring a Gradle-powered user-friendly interface for accessibility.

## LEADERSHIP

- Apple Developer's Group** Bengaluru, India  
Software Domain Lead Aug 2021 - May 2022
  - Led promotion of club objectives and app capabilities, and **landed 55 new sign-ups**. Organized and facilitated workshops on CS concepts **averaging 60 attendees** and an App Development seminar with 75 participants. **Achieved 90% engagement** in these interactive activities, fostering a vibrant learning environment and community participation.