

Varun Kamath

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Education

- **PES University**

Bachelor's in Computer Science and Engineering; CGPA: 9.27/10.00

Bangalore, India

2021-2025

Experience

- **STARC-PESU Project Intern**

- Utilized **Python** and various open-source modules to implement a **wide detection model** for cricket.
- Developed a **pose detection model** to accurately track the batsman's position and utilized **image processing techniques** to effectively detect wide lines on the pitch. Used **Unity Engine** for 3D representation.

Projects

- **Rift - Social Media Web Application - [Github](#)**

- Developed a full-stack social media web application akin to Twitter, enabling users to post tweets and engage with a messaging feature for private communication. Utilized the MERN stack.

- **Course Recommender - [Github](#)**

- Developed a **content-based course recommender** using **Python** and **Streamlit**, employing algorithms to analyse user preferences and course content for personalized recommendations

- **NeuraLap: The Autonomous Racing Project - [Github](#)**

- Implemented a self-learning racing car system using NEAT algorithm and Neural Networks from scratch (NumPy and Pygame).
- Played a pivotal role in crafting and refining the neural networks component of the project, elevating its overall performance and sophistication

- **Cisco Inventory Management and Demand Prediction - [Github](#)**

- Participated in a 24-hour hackathon with a team of 4 to develop a forecasting model to the problem statement given by **Cisco** in the field of **Inventory Management and Demand Prediction** using **Python** and various **ML Models**.
- Demonstrated versatility by leading data preprocessing efforts, optimizing dataset readiness for model construction, and actively contributing to the model-building phase using Python and various ML models.

- **Fetal Health Classification Data Analysis - [Google Colab](#)**

- Executed a comprehensive data analysis project for "Fetal Health Classification" using Kaggle dataset.
- Applied EDA, data pre-processing, manipulation, cleaning, reduction, and optimization, achieving 97% accuracy.

Skills

- **Languages:** Python, C/C++, R programming
- **Machine Learning:** Scikit-learn, Pandas, NumPy, Mediapipe, Matplotlib, Seaborn, Data Visualization
- **Web Tech:** HTML/CSS, ReactJS, JavaScript, Nodejs, ExpressJS, NextJS, Tailwind CSS
- **Soft Skills:** Teamwork, Time management, Situational analysis, Adaptability
- **Others:** Blender, Design, Video Editing

Courses

- Completed the **Recommendation System Course** by PESU I/O.
- Completed the course on **Machine Learning with Python** on **Udemy**. Link: [Certificate](#)
- Completed the course on **NLP Empowerment with Python** and **OpenAI**.

Leadership and Scholarships

- **MRD Scholarship** awarded by PES University for placing **top 20%** of university in 1st, 2nd and 3rd semester each.
- **CNR Rao Scholarship** awarded by PES University for placing **top 5%** of the university in the 4th semester
- **Sponsorship Coordinator** for college fest Maaya at PES University
- **Former Vice President** of SNBP International School, Pune, Maharashtra (9th Grade)

Achievements

- **7th** in Hacknight, a coding competition to get most PR's accepted on Github (Oct 2022)
- **8675th** in Google Code Jam (Feb 2022)
- **1st** in Relay race in 9th grade (Jan 2018)
- **1st** in 300m roller-skating (Feb 2015)
- **3rd** in 300m roller-skating (Feb 2014)