Varun Kamath

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Education

PES University | Computer Science *Bangalore, India* **| 2021-2025**

- Cumulative **GPA: 9.27/10.00** ; [*As of Sept 2023*]
- Received **MRD Scholarship** for top 20% ranking in the 1st, 2nd, and 3rd semesters and **CNR Rao Scholarship** for top 5% in the 4th semester at PES University.
- **Coursework:** Software Engineering, Statistics for Data Science, Data Structures and Algorithms, Machine Intelligence, Programming in Python, Operating Systems, Database Management System, Programming in Python, Programming in C

Experience

STARC-PESU Project Intern *06/2023 - 07/2023*

- Developed a cricket wide detection model utilizing Python and open-source modules, achieving a rapid 1 minute and 20 second processing time.
- Designed a precise batsman pose detection system, employing image processing techniques for accurate wide line detection on the pitch, with real-time 3D visualization in Unity Engine.

Projects

Fetal Health Classification Data Analysis - Google Colab *09/2023 - 09/2023*

- 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.

Rift - Social Media Web Application - Github *06/2023 - 07/2023*

- Engineered a full-stack social media platform, similar to Twitter, allowing users to post tweets and facilitate private messaging.
- Utilized the MERN (MongoDB, Express.js, React, Node.js) stack and harnessed the React framework to design and implement the platform, within a 2-month timeframe

Course Recommender - Github *03/2022 - 03/2023*

- Built a content-based course recommender using Python and Streamlit completing the project in 1 week
- Employed algorithms to analyse user preferences and course content for personalized recommendations.

Cisco Inventory Management and Demand Prediction - Github *03/2023 - 03/2023*

- Collaborated in a 24-hour hackathon with a team of 4 to develop a forecasting model for Cisco's Inventory Management and Demand Prediction challenge, utilizing Python and diverse ML Models.
- Showcased versatility by spearheading data preprocessing, enhancing dataset suitability for model creation, and actively participating in the model-building phase with Python and various ML models.

NeuraLap: The Autonomous Racing Project - Github *01/2023 - 03/2023*

- Implemented a self-learning racing car system utilizing the NEAT algorithm and Neural Networks, completing tracks within 5 generations.
- Played a pivotal role in crafting and refining the neural networks component of the project, elevating its overall performance and sophistication

Skills

Programming Languages:	Python, C/C++, R
Machine Learning:	Scikit-learn, Pandas, NumPy, Mediapipe
Data Visualization:	Matplotlib, Seaborn
Web Technologies:	HTML/CSS, ReactJS, JavaScript, Node.js, Express.js, Next.js, Tailwind CSS
Soft Skills:	Teamwork, Adaptability, Communication, Collaboration
Additional Skills:	Blender, Design, Video Editing

Additional 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