Kanishka Mohankumar

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Summary

Computer Science and Engineering (Data Science) undergraduate with strong knowledge in data science, artificial intelligence, and machine learning. Proficient in developing full stack web applications and data-driven solutions. Good at research, especially in areas involving predictive modeling and intelligent systems. Passionate about applying advanced technologies to solve real-world problems. Strong foundation in algorithms, software development, and model deployment.

Education

VIT University, Chennai, India 2023 - 2027
Bachelor of Technology in Computer Science and Engineering, Data Science CGPA: 8.29 (First 4 sem)

The Navodaya Academy 12th : 80.8%, 10th : 97.6%
High School (CBSE) 2011 - 2023

Professional Experience

Research Intern May 2025 - Present
Coronary Heart Disease Risk Prediction VIT University

- Developed an ensemble model combining XGBoost, Random Forest, and Logistic Regression for predicting 10-year risk of coronary heart disease.
- Achieved model performance with 90.75% accuracy, 0.9060 F1 score, 0.9679 AUC score, and 91.21% 5-fold stratified accuracy.
- Conducted data preprocessing, feature selection, and hyperparameter tuning to enhance model efficiency and reliability.

Qantler Technologies May 2025 - June 2025
Software Developer Intern India

- Designed and developed a billing system using HTML5, CSS3, and JavaScript, ensuring a responsive and intuitive user interface.
- Implemented modular and maintainable code, improving system scalability and reducing load times by 20%.
- Integrated real-time data validation and user feedback mechanisms, enhancing user experience and reducing errors by 15%.
- Collaborated with backend developers to ensure seamless API integration for dynamic billing functionalities.

Technical Projects

Coronary Heart Disease Risk Prediction May 2025 - Present

- Built a predictive model for assessing 10-year coronary heart disease risk using an ensemble of XGBoost, Random Forest, and Logistic Regression.
- Achieved 90.75% accuracy using clinical datasets (Framingham dataset), more efficient than any other model.
- Streamlined data preprocessing and feature engineering, improving model robustness and interpretability.

Billing System Development May 2025 - June 2025

- Developed a responsive billing system with HTML5, CSS3, and JavaScript, optimized for cross-device compatibility.
- Enhanced system performance by implementing efficient client-side validation, reducing processing time by 20%.
- Designed a user-friendly interface with real-time feedback, improving user satisfaction and operational efficiency.

Achievements and Awards

Winner(Dataset2024)	National-level hackathon, secured an internship offer from Nokia for outstanding performance in data analysis and preprocessing	2024
Event Organizer	Organized and managed events promoting health awareness, fostering leadership and event management skills	2025
Selected for Research	Researched and developed a predictive model for coronary heart disease risk assessment	2025

Technical Skills

Programming Languages: Python, Java, C, C++, SQL, JavaScript
Domains: Data Analysis, Machine Learning, Full Stack Development
Platforms: Windows, Linux
Web Technologies: HTML5, CSS3, React.js, Bootstrap, Node.js
Machine Learning: Scikit-learn, OpenCV
Cloud: AWS, Azure, Google Cloud Platform

Languages

English: Professional proficiency **Tamil:** Native **German:** Conversational proficiency