KIRAN MEENAKSHI SUNDARAM

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SUMMARY

Software Engineer and MSc Advanced AI student at University College Dublin, skilled in Machine Learning, NLP, Computer Vision, API development, backend engineering, and mobile applications. Experienced with scalable model deployment and full-stack project delivery. Proficient in Python, C++, Java, REST APIs, Scikit-Learn, PyTorch, SQL, GitHub, and cloud databases.

EDUCATION

M. Sc. Advanced Artificial Intelligence, University College Dublin (UCD)   **Sep 2025 - Present**
Relevant Modules: Advanced ML, Deep Learning, Optimisation, Applied Ai in vision and imaging, Advanced generative AI and LLMS, AI for health, Recommender systems
B. Tech Information Technology, Sathyabama University, India   **Aug 2021 – May 2025**
Cumulative GPA : 8.89/10 (1:1 Honours equivalent)

TECHNICAL SKILLS

- **Programming Languages:** Python, Advanced Java, R, C, C++
- **Web Development:** HTML, CSS, PHP, JavaScript, Flutter, Flask, Django, RESTful APIs, Node.js
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
- **Database & Systems:** SQL, DBMS, Operating Systems, Cloud & Fog Computing, Firebase
- **AI/ML:** Machine Learning, Deep Learning, Data Mining, Computer Vision, NLP, Model Deployment
- **Software Engineering:** Object Oriented Analysis and Design, Version Control (Git/GitHub), SDLC
- **Analytics & Big Data:** Big Data Analytics, Business Analytics, Soft Computing
- **Emerging Technologies:** Blockchain, AR/VR
- **Others:** Microsoft Office

WORK EXPERIENCE

Flutter Intern | **Hackwit Technologies**   **Jan 2024 – Feb 2024**
- Integrated backend API endpoints, optimizing data transfer protocols and reducing latency, resulting in 30% faster app response times.
- Executed 6+ production features, improving app stability by 28% across 10+ UI screens.
- Contributed 25+ version-controlled commits, streamlining deployment and feature tracking.
- Reduced bug reports by 18% using optimized state handling and UI component updates.

Web Developer Intern | **HDLC Technologies**   **June 2023 - Aug 2023**
- Built API-connected web modules, increasing data fetch efficiency by 32%.
- Implemented UI upgrades across 8+ pages, improving navigation performance and user flow.
- Processed 500+ test cases in validation cycles for booking and data display features.
- Delivered structured web services aligned with SDLC, database integration, and API standards.

CERTIFICATES

- [Programming in C and C++](#) - Apollo Education
- [Python](#) - University of Michigan (Coursera)
- [MongoDB](#) – MongoDB Learn

PROJECTS

Hospital Management System [Code]
- Built a full-stack hospital platform with RBAC, reducing admin processing time by ~40% and supporting 4+ user roles.
- Applied modules for appointments, EHR/EMR records, e-prescriptions, inventory, and blood donation workflows.
- Deployed ML models (cardio, neuro, diabetes) with sub-second inference and 35% faster diagnosis insights via AI chatbot automation.

Weather API and Train Ticket Reservation System [Code]
- Launched AI chatbot and 3 machine learning diagnostic models, improving early-risk detection rate by 35% and model inference speed by 40% using streamlined pipelines.
- Built train-ticket booking module with enhanced search, validation, and response caching.

Car Rent and Purchase App [Code]
- Developed a mobile app with Fast API backend and Flutter UI, handling 1,000+ possible service tasks and dynamic vehicle catalogue.
- Enforced secure login, dynamic vehicle catalogue, and service task tracking.
- Connected NoSQL storage using Firebase for live data sync.