

Sarathi Kannan B

+91 8610069621 | sarathitvm1@gmail.com | [linkedin.com/in/sarathikannan13](https://www.linkedin.com/in/sarathikannan13) | github.com/sarathikannan13 | sarathikannan-ai-developer.vercel.app | Tamil Nadu, India

Software Engineer

About Me

I am a highly analytical and results-driven **Data Science** professional specializing in the application of **advanced statistical modeling** and **machine learning techniques** across diverse datasets. I excel at leveraging a robust technical stack, including **Python (Pandas, NumPy, scikit-learn)**, **SQL**, and modern **deep learning frameworks** such as **TensorFlow** and **PyTorch** to solve complex business problems. I have a proven ability to extract actionable insights, build high-accuracy predictive models, and deliver **data-driven recommendations** that drive **strategic decision-making** and **process optimization**. I am also skilled in **data visualization** and managing **end-to-end analytical project lifecycles**, ensuring impactful and measurable business outcomes.

Technical skills

- Programming Languages & Scripting: Java 8+, Python, OOPs, DSA
- Web & App Development: HTML, CSS
- Frameworks & Libraries: Django, Flask, Microservices, FastAPI
- Web Services: RESTful APIs, Socket
- Databases: MySQL
- Blockchain Technologies: Web3 UI, Solidity
- Development Tools & IDEs: PyCharm, VS Code, Postman
- Version Control: Git, GitHub
- CI/CD & Deployment: GitHub Actions
- Data Visualization & Reporting: Matplotlib, Seaborn, Pandas, NumPy, Scikit-learn
- Methodologies: Agile, Scrum
- Productivity Tools: Microsoft Excel, Word, Microsoft 365 Applications

Experience

ML/DL Internship | CIIC Intel ML/DL Internship July 2024 - August 2024

Engaged in a focused research internship, specializing in the end-to-end development of **Machine Learning (ML)** and **Deep Learning (DL)** models. Applied core data science principles, focusing on building, evaluating, and optimizing predictive systems using industry-standard Python libraries.

Roles & Responsibilities:

- Developed and implemented **ML/DL models** using **Python** with leading frameworks, including **TensorFlow** and **scikit-learn**.
 - Successfully built and rigorously evaluated predictive models tailored for specific applications, such as **image classification** and **sentiment analysis**.
 - Gained practical, hands-on experience in the critical phases of the ML pipeline, including comprehensive **data preprocessing** and **feature engineering**.
 - Applied techniques in **model tuning** and **hyperparameter optimization** to maximize the accuracy and generalization capability of developed algorithms.
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IoT Development Internship | Internship (IoT Focus)
August 2024 - October 2024

Engaged in a project-focused internship developing **Internet of Things (IoT)** solutions, concentrating on the end-to-end data pipeline from physical sensors to actionable insights. Gained expertise in managing **real-time data streams** and designing visual tools for complex device monitoring.

Roles & Responsibilities:

- Executed IoT projects involving comprehensive **sensor data collection**, utilizing protocols for efficient ingestion and handling of large data volumes.
- Developed and applied techniques for **data preprocessing and analysis** on streaming sensor data to ensure accuracy and extract valuable operational metrics.
- Assisted in the design and implementation of **predictive models** to forecast device failures or identify anomalies within IoT device datasets.
- Built interactive **data visualization dashboards** to monitor device health, interpret real-time data streams, and provide immediate operational oversight.

Certifications

- ML/DL Internship | CIIC Intel ML/DL Internship
- Internship at Praya Labs - IoT projects.

Expertise

- Full-Stack Web Development
- Django Backend Development
- Microservices Architecture
- Database Design(MySQL)
- Smart Contract Development & Testing

Achievements

- Attended A National Conference and Publish a Paper about Cryptocurrency
- Participated in Smart India Hackathon

Education

Qualifications	Institute	University/Board	Year of Passing	%
B. Tech in Artificial Intelligence and Data Science	Arunai Engineering College	Anna University	2026	8.3 (CGPA)
XII - HSC	KVM Matric Hr. Sec School	Tamil Nadu	2022	72%
X - SSLC	KVM Matric Hr. Sec School	Tamil Nadu	2020	83.8%

Strengths

- Rapid Adaptation & Learning Agility
- Advanced Technical Competence
- Cross-functional Collaboration
- Strategic Problem-Solving
- Effective Stakeholder Communication

Hobbies

- Decentralized Technology Research
- Smart Contract Development
- Algorithmic Trading & Analytics