SANJAY KUMAR M

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ABOUT ME

I am a passionate and goal-oriented Artificial Intelligence and Data Science graduate with a strong foundation in Python, machine learning, and full-stack web development. Through academic projects, internships, and independent initiatives, I have built intelligent systems including AI chatbots, data analytics dashboards, and web-based applications. I thrive in problem-solving environments and enjoy collaborating with teams to develop practical, real-world tech solutions. With a continuous learning mindset and strong communication skills, I aim to contribute meaningfully to innovative and impactful projects.

EDUCATION

Panimalar Engineering College — Chennai, India
BTech in Artificial Intelligence and Data Science (HONORS); GPA: 8.6 — **November 2021 - May 2025**

Nalanda Matric Higher Secondary School — Krishnagiri, India
Higher Secondary School Certificate (HSC) ; Percentage : 92.3 — **June 2019 - March 2021**

Cambridge Matric Higher Secondary School — Krishnagiri, India
Secondary School Leaving Certificate (SSLC) : Percentage : 91 — **June 2018 – April 2019**

SKILLS SUMMARY

Languages: Python, SQL, JAVA
Frameworks: Pandas, Numpy, TensorFlow, PyTorch, Scikit Learn
Platforms: PyCharm, Jupyter Notebook, Visual Studio Code
Soft Skills: Leadership, Communication, Reading Books, Teamwork, Problem-Sloving

WORK EXPERIENCE

Full Stack Web Developer Intern| Zigson Technologies | LINK — **June 23- August 23**

- Built and optimized a Learning Management System using PHP, HTML, CSS, and MySQL with secure login, role-based access, and intuitive UI.
- Collaborated with design and QA teams to improve user experience, resolve bugs, and ensure cross-platform compatibility.

Data Analyst Intern| CodersCave| LINK — **February 23- March 23**

- Analyzed datasets using Python and Excel to extract insights and created visual dashboards to support data-driven decisions.
- Cleaned and transformed data, automating repetitive tasks and improving operational efficiency by 25%.

Data Analyst Intern| Edunet Foundation | LINK — **March 23- April 23**

- Conducted exploratory data analysis and built predictive models to uncover educational trends and suggest improvements.
- Presented findings to mentors weekly, contributing to better resource allocation and student support strategies.

PROJECTS

LawBot: Know Your Law (KYL)| LINK

- Developed an AI-based chatbot to help citizens understand their legal rights by answering law-related queries in a simple conversational format.
- Integrated NLP with a legal knowledge base, enabling accurate responses based on Indian laws, making legal awareness more accessible to the public.

Medi-Chatbot | LINK

- Designed a healthcare chatbot that collects user symptoms and provides possible diagnoses or suggestions for medical care.
- Leveraged machine learning algorithms to enhance prediction accuracy, promoting early awareness and reducing dependency on in-person consultations for minor ailments.

AI Mouse | LINK

- Built a virtual mouse system using Python and OpenCV that allows users to control mouse movement and actions through hand gestures captured via webcam.
- This project aimed to improve digital accessibility, especially for users with physical disabilities, by replacing traditional hardware with vision-based controls.

Asset Management System| LINK

- Created a web application to manage organizational assets — from asset requests and approvals to real-time inventory tracking.
- Included features like unique asset identification, movement logs, condition monitoring, and scheduled maintenance, reducing asset loss and improving resource planning.

Visitors Pass Management System| LINK

- Developed a secure and efficient system for managing the inflow and outflow of visitors within a company premises.
- Implemented visitor registration, badge generation, check-in/check-out tracking, and admin dashboards to enhance security, compliance, and reporting.

Voice-Controlled AI Assistant using Python | LINK

- Developed a laptop-based AI assistant in Python that responds to voice commands to perform tasks like web search, weather updates, and media control using APIs such as Wikipedia, OpenWeatherMap, and WolframAlpha.
- Integrated modules for speech recognition (speech_recognition), text-to-speech (pyttsx3), and web automation to enable hands-free system operations and user-friendly interaction.
- Focused on offline functionality, modular architecture, and enhanced privacy to create a customizable and extensible desktop assistant.

CONFERNCE AND WORKSHOPS

4th International Conference on Recent Trends in Engineering, Technology, and Management **April 2024**
Suguna College of Engineering

Attended keynote sessions and technical talks on the latest innovations in engineering disciplines, smart systems, and tech-driven management solutions.

6th International Conference on Intelligent Computing (IConIC 2K23) **March 2023**
Panimalar Engineering College

Participated in the IEEE National Conference focused on cutting-edge developments in intelligent computing, AI-based systems, and automation.

1st International Conference on Computational Science and Technology (ICCST) **July 2022**
Sairam Engineering College

Gained exposure to research presentations and expert discussions on AI methodologies, computational science, and advancements in data-centric technologies.

Blockchain Workshop **March 2022**
MIT, Chennai

Engaged in hands-on learning sessions about blockchain fundamentals, smart contracts, cryptographic principles, and decentralized system design.

PUBLICATIONS

Know Your Law (KYL): A Lawbot for Empowering Citizens | AIP Publishing | LINK **March 2023**

Published a research paper on the development of KYL, an AI-powered chatbot designed to promote legal awareness among citizens by providing instant, user-friendly access to legal information using natural language processing.

Determination of Gout Disease Using Machine Learning | IEEE (Scopus Indexed) | LINK **March 2023**

Authored a research study applying machine learning algorithms to detect and predict gout disease using patient data, with a focus on early diagnosis and accuracy improvement in clinical decision-making.

ACHIEVEMENTS

Campus Ambassador – Rinex Technologies | Winner – Final Year Coding Competition | Runner-up – Second Year Coding Competition | Event Coordinator – Achievers Day & Symposium

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LANGUAGES

English – Advanced | **Tamil** – Full proficiency (Native)

HOBBIES & INTERESTS

Exploring AI Tools | Reading | Learning new skills |Podcast Listening| Video editing | Fitness & Health

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DECLARATION

(Sanjay Kumar M), hereby declare that the information provided here in as true and accurate to the best of my knowledge. I understand the implications of providing false information and take full responsibility for its authenticity