

Deepak Kumar M

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Education

- M.Kumarasamy College of Engineering - B.Tech(AI/DS) - CGPA: 7.2/10** Grad: May 2024
- Coursework:** Data Structures & Algorithms, Machine Learning, NLP, Computer Vision, Neural Networks, Database Systems, Web Development, Operating Systems, Software Engineering
- Konghu Velalar Polytechnic College - Diploma(Mech) - CGPA: 7.2/10** Grad: May 2019
- Coursework:** Engineering Drawing, Strength of Materials, Thermodynamics, Fluid Mechanics, Manufacturing Processes, CAD/CAM, Metrology, Automobile Engineering

Skills

- Programming:** Python, Pega, Java, HTML/CSS, SQL
- Web Development:** React.js, Node.js, Express, Flask, Tailwind CSS, RESTful APIs
- AI/DS:** TensorFlow, LangChain, OpenAI API, Vector Databases, WebKit Speech API, Scikit-learn, NLTK
- DevOps & Tools:** MongoDB, MySQL, Firebase, Git, GitHub, Streamlit, Multer, Context API, Linux

Experience

- Technical Trainer – Way2Me** Mar2025- Present
- Hands-on Training Delivery:** Conducted project-based sessions in Machine Learning, Deep Learning, IoT, and Python, improving practical understanding for students by 45%
 - Real-world Application Guidance:** Mentored learners to build and deploy mini AI/IoT projects, strengthening industry readiness and problem-solving skills
 - Curriculum & Lab Design:** Developed structured modules and lab exercises that reduced learning time and increased engagement in technical concepts
 - Student Mentorship:** Guided 50+ learners on career paths, projects, and technical challenges, fostering continuous improvement and confidence in coding

- Automation Intern – Clover Technologies** Aug 2024- Feb 2025
- Industrial Automation Development:** Designed and implemented Python-driven IoT control modules interfacing with sensors and actuators to simulate real-time industrial automation scenarios
 - PLC Logic Programming & Diagnostics:** Developed, tested, and troubleshooted ladder-logic programs on Programmable Logic Controllers (PLC) by analyzing I/O signal flow and correcting logic faults
 - Technical Documentation & Knowledge Transfer:** Created detailed system documentation, flow diagrams, and conducted peer training sessions on IoT protocols, Python scripting, and ML fundamentals

- CNC Operator – ZF Wind Power Pvt. Ltd.** 2019 - 2021
- Precision Machining:** Operated and monitored CNC machines for high-accuracy component manufacturing used in wind turbine systems
 - Technical Drawing Interpretation:** Analyzed engineering drawings and CAD models to ensure correct machine setup, reducing production errors
 - Troubleshooting & Maintenance:** Identified and resolved machine and programming issues, minimizing downtime and ensuring smooth production flow
 - Quality & Safety Compliance:** Performed continuous inspections to maintain tight tolerances while strictly following industrial safety standards

Projects

- Smart Assistant – REPLICA** [Python, NLP, Speech Recognition, Voice Authentication, Language Detection, Web Technologies]

- Intelligent Voice Assistant Development:** Built a voice-driven system using Python, NLP, and SpeechRecognition to allow secure access to student information through natural language commands
- Voice Authentication & Language Detection:** Implemented biometric voice verification and automatic language identification using Librosa, Scikit-learn, and NLP models, enabling multi-language, secure access
- Secure & Scalable Web Application:** Developed an interactive web platform using Flask/Streamlit and MySQL, with role-based access control and encrypted data handling to protect sensitive student information

- SecureX – Intelligent Security Browser Extension** [JavaScript, Chrome Extension API, Flask,

- TensorFlow.js, scikit-learn, BeautifulSoup, RESTful APIs, SQLite*

- Architected a browser extension that protects users from sophisticated phishing attacks by analyzing URLs and page content in real-time
- Machine Learning Pipeline:** Developed and trained a TensorFlow model achieving 93
- Performance Optimization:** Engineered lightweight extension consuming 50MB memory through efficient background workers and event-driven architecture
- Cross-browser Compatibility:** Implemented adapter design pattern enabling deployment across Chrome, Firefox and Edge browsers with single codebase

Certifications and Awards

- Certified System Architect - PEGA(8.8)**
- Certified Senior System Architect - PEGA(8.8)**
- Google Project Management Certificate and fully handed over by Coursera**
- Geo-data Analysis conducted and fully handed over by ISRO.**