

Deepak Kumar M

+91 938-561-5613 • deepakmoorthi74@gmail.com • www.linkedin.com/in/deepakkkumar-m-b2663a223

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 troubleshoot 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.**