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# MANIKANDAN S

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GitHub:<https://github.com/Manikandan17S>

Portfolio: <https://manikandan-portfolio-omega.vercel.app>

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## CAREER OBJECTIVE

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ASPIRING ARTIFICIAL INTELLIGENCE AND DATA SCIENCE PROFESSIONAL WITH STRONG EXPERTISE IN PYTHON, SQL, MACHINE LEARNING, AND REAL-TIME AI APPLICATIONS. CURRENTLY WORKING AS AN **AI & ML TRAINER**, PASSIONATE ABOUT SIMPLIFYING COMPLEX CONCEPTS, MENTORING STUDENTS, AND BUILDING PRACTICAL, SCALABLE AI SOLUTIONS THAT CREATE REAL-WORLD IMPACT.

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## EXPERIENCE

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### AI & ML TRAINER

**BIG LEARN IT**, TRICHY, TAMIL NADU

**DEC 08, 2025 – PRESENT**

- DELIVER HANDS-ON TRAINING IN **ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND DATA SCIENCE** FOR STUDENTS AND FRESH GRADUATES
- TEACH **PYTHON, NUMPY, PANDAS, MATPLOTLIB, POWER BI, AND MACHINE LEARNING FUNDAMENTALS** USING REAL-WORLD EXAMPLES
- SIMPLIFY COMPLEX AI/ML CONCEPTS WITH **BEGINNER-FRIENDLY EXPLANATIONS, VISUALIZATIONS, AND LIVE CODING SESSIONS**
- GUIDE STUDENTS IN **MINI-PROJECTS AND REAL-TIME PROJECTS**, IMPROVING ANALYTICAL THINKING AND PROBLEM-SOLVING SKILLS
- ASSIST LEARNERS WITH **PROJECT DEBUGGING, MODEL OPTIMIZATION, AND DEPLOYMENT BASICS**
- MENTOR STUDENTS ON **CAREER PATHS** SUCH AS DATA ANALYST, DATA SCIENTIST, AND ML ENGINEER

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## SKILLS

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### TECHNICAL SKILLS

- PROGRAMMING: PYTHON, SQL, JAVASCRIPT
- AI & DATA SCIENCE: PANDAS, NUMPY, MATPLOTLIB, POWER BI
- MACHINE LEARNING: SCIKIT-LEARN, TENSORFLOW
- GENAI & PROMPT ENGINEERING: PROMPT DESIGN, AI-ASSISTED DEVELOPMENT, LLM INTEGRATION
- APPLIED WEB (AI-FOCUSED): HTML, CSS, REACT.JS (BASIC), FLASK
- TOOLS: JUPYTER NOTEBOOK, GOOGLE COLAB, VS CODE, GIT
- DATABASES: MYSQL, MONGODB (BASIC)

### SOFT SKILLS

- PROBLEM-SOLVING • COMMUNICATION • TEAMWORK • ADAPTABILITY • CREATIVITY • TEACHING & MENTORING

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## EDUCATION

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B.TECH – ARTIFICIAL INTELLIGENCE & DATA SCIENCE

SUDHARSAN ENGINEERING COLLEGE, PUDUKKOTTAI, TAMIL NADU

2021 – 2025 | CGPA: 7.9 / 10

### VISIONTALK AI – OFFLINE VOICE & VISION ASSISTANT

- BUILT AN ADVANCED OFFLINE AI ASSISTANT CAPABLE OF VOICE INTERACTION, AI REASONING, AND REAL-TIME OBJECT DETECTION
- INTEGRATED LOCAL OLLAMA (PHI-3 MINI) MODEL FOR COMPLETELY OFFLINE AI PROCESSING ENSURING PRIVACY
- IMPLEMENTED SPEECH RECOGNITION, OFFLINE TEXT-TO-SPEECH, AND SYSTEM AUTOMATION
- TOOLS: PYTHON, OLLAMA, PYQT5, OPENCV, SPEECHRECOGNITION, PYTTX3, PYAUTOGUI

### AI-POWERED PERSONAL FINANCE ADVISOR

- DEVELOPED A WEB-BASED AI SYSTEM TO ANALYZE SPENDING PATTERNS AND PROVIDE PERSONALIZED INSIGHTS
- BUILT BACKEND USING FLASK AND SQL, FRONTEND WITH REACT AND TAILWIND CSS
- DEPLOYED BACKEND ON RENDER AND FRONTEND ON VERCEL
- TOOLS: PYTHON, FLASK, SQL, REACT, TAILWIND CSS, CHART.JS

### DAILY ENGLISH WORDS TELEGRAM BOT

- CREATED AN AUTOMATED TELEGRAM BOT SENDING DAILY ENGLISH WORDS WITH TAMIL MEANINGS
- IMPLEMENTED JSON-BASED SUBSCRIPTION SYSTEM WITHOUT PAID DATABASES
- USED UPTIMEROBOT TO KEEP THE RENDER BACKEND ACTIVE
- TOOLS: PYTHON, PYTHON-TELEGRAM-BOT, JSON, RENDER, UPTIMEROBOT

### COST-EFFECTIVE VR HAND TRACKING

- DESIGNED A REAL-TIME HAND TRACKING SYSTEM USING WEBCAM-BASED COMPUTER VISION
- REDUCED VR HARDWARE COST BY 40% USING ML-BASED TRACKING
- TOOLS: PYTHON, OPENCV, MEDIAPIPE, TENSORFLOW

### Personal Portfolio Website (AI-Assisted Development)

- Designed and deployed a futuristic personal portfolio using **AI-assisted tools** for layout and component generation
- Customized UI, animations, and content structure to match AI & Data Science profile
- Integrated live project links, GitHub repositories, and deployment workflows
- Gained practical exposure to **React concepts, Tailwind styling, and deployment on Vercel**
- Live: <https://manikandan-portfolio-omega.vercel.app>

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## CERTIFICATIONS

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- Natural Language Processing Projects – Great Learning
- AWS Academy Graduate – Cloud Foundations
- Getting Started with Artificial Intelligence – IBM SkillsBuild

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## LANGUAGES

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- English • Tamil

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## ADDITIONAL SKILLS

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- **Operating Systems:** Windows, Linux
- **Design & Editing:** Canva, Photoshop, After Effects, DaVinci Resolve, Blender