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# MANIKANDAN S

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

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## SKILLS

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### TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES:** PYTHON, SQL, JavaScript.
- **WEB DEVELOPMENT:** HTML, CSS, JavaScript, Nodejs, Django, PHP, Flask.
- **DATA ANALYTICS:** POWER BI, PANDAS, NUMPY, MATPLOTLIB.
- **MACHINE LEARNING:** SCIKIT-LEARN, TENSORFLOW.
- **TOOLS:** JUPYTER NOTEBOOK, GOOGLE COLAB, VISUAL STUDIO CODE, GIT
- **DATABASE MANAGEMENT:** MYSQL, MongoDB (basic).

### SOFT SKILLS

- PROBLEM-SOLVING, COMMUNICATION, TEAMWORK, ADAPTABILITY, CREATIVITY.

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## CAREER OBJECTIVE

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ASPIRING ARTIFICIAL INTELLIGENCE AND DATA SCIENCE PROFESSIONAL WITH EXPERTISE IN PYTHON, SQL, AND MACHINE LEARNING. PASSIONATE ABOUT LEVERAGING TECHNICAL SKILLS TO DELIVER INNOVATIVE SOLUTIONS AND ENHANCE ORGANIZATIONAL PERFORMANCE.

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## EDUCATION

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### B.TECH IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SUDHARSAN ENGINEERING COLLEGE, PUDUKKOTTAI, TAMILNADU(2021-2025) – **CGPA: 7.75/10**

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## PROJECTS

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### FACE PREDICTION PROJECT

- **DEVELOPED A MACHINE LEARNING MODEL** FOR FACIAL FEATURE RECOGNITION AND PREDICTION USING CLEANED DATASETS.
- **ACHIEVED OPTIMIZED ACCURACY** THROUGH EFFECTIVE MODEL EVALUATION TECHNIQUES.
- **TOOLS:** PYTHON, PANDAS, NUMPY, SCIKIT-LEARN.

### VOICE ASSISTANT

- **BUILT AN OFFLINE AND ONLINE VOICE ASSISTANT** CAPABLE OF RECOGNIZING USER COMMANDS AND PROVIDING TAILORED RESPONSES.
- **INTEGRATED SPEECH RECOGNITION AND TEXT-TO-SPEECH APIs** FOR INTELLIGENT INTERACTION.
- **TOOLS:** PYTHON, SPEECHRECOGNITION LIBRARY, PYTTX3, GOOGLE TEXT-TO-SPEECH API.

## **COST-EFFECTIVE VR HAND TRACKING**

- DESIGNED A **REAL-TIME HAND TRACKING SYSTEM USING MACHINE LEARNING**, REDUCING VR EQUIPMENT COSTS BY 40%.
- UTILIZED A STANDARD WEBCAM AND COMPUTER VISION TECHNIQUES FOR **ENHANCED USER INTERACTION**.
- **TOOLS:** PYTHON, OPENCV, MEDIAPIPE, TENSORFLOW.

## **AI-POWERED PERSONAL FINANCE ADVISOR**

- DEVELOPED A WEB-BASED AI SOLUTION TO ANALYZE SPENDING PATTERNS AND PROVIDE PERSONALIZED FINANCIAL INSIGHTS.
- INTEGRATED PYTHON BACKEND (FLASK), SQL DATABASE, AND REACT FRONTEND TO DELIVER REAL-TIME FINANCIAL TRACKING.
- DESIGNED A FUTURISTIC UI WITH ANIMATED CHARTS, GLASSMORPHISM CARDS, AND INTERACTIVE AI ASSISTANT FEATURES.
- DEPLOYED THE BACKEND USING RENDER AND THE FRONTEND USING VERCEL, ENSURING SCALABILITY AND SPEED.
- **TOOLS:** PYTHON, FLASK, SQL, REACT, TAILWIND CSS, CHART.JS, VERCEL, RENDER

## **PERSONAL PORTFOLIO WEBSITE**

- DESIGNED AND DEVELOPED A FUTURISTIC PORTFOLIO SITE SHOWCASING AI PROJECTS, EDITING WORK, AND TECHNICAL SKILLS.
- INTEGRATED FRAMER MOTION ANIMATIONS, INTERACTIVE CARDS, AND RESPONSIVE LAYOUTS USING MODERN WEB TECHNOLOGIES.
- HOSTED LIVE ON VERCEL FOR ACCESSIBILITY AND PERFORMANCE.
- **LIVE:** <https://manikandan-portfolio-omega.vercel.app>
- **TOOLS:** REACT.JS, TAILWIND CSS, FRAMER MOTION, GITHUB, VERCEL.

- **NATURAL LANGUAGE PROCESSING PROJECTS(GREAT LEARNING)**
- **AWS ACADEMY GRADUATE - AWS ACADEMY CLOUD FOUNDATIONS**
- **GETTING STARTED WITH ARTIFICIAL INTELLIGENCE(IBM SKILLSBUILD)**

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## **LANGUAGES KNOWN**

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English, Tamil

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## **ADDITIONAL SKILLS**

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- **OPERATING SYSTEMS:** WINDOWS, LINUX
- **DESIGNING:** CANVA, PHOTOSHOP
- **EDITING:** AFTER EFFECTS, DAVINCI, BLENDER