

# SUDARSHAN PAI Y

linkedin.com/in/sudarshan-pai-y | github.com/SPY-Github22 | spy-github22.github.io/portfolio

Software Developer focusing on AI integration, data pipelines, and scalable backend systems. Proven ability to process complex datasets, automate workflows, and build logic-heavy applications.

## EDUCATION

**Manipal Institute of Technology**, Bangalore 2025 – 2029  
*B.Tech in Computer Science Engineering (Core)*

**Bhavan's Vidya Mandir**, Girinagar 8th – 12th Grade

## TECHNICAL SKILLS

**Languages:** Python, C#, JavaScript, HTML/CSS

**Tools & Platforms:** Git, GitHub, Unity, Unreal Engine 5

**Key Areas:** AI Integration, Data Handling, Automation, System Architecture, Web Development

## PROJECTS & TECHNICAL EXPERIENCE

**ResumeIQ - AI Resume Matching Web App** *JavaScript, Web Development, AI*

- Engineered a web application utilizing AI to evaluate user resumes against target job descriptions.
- Developed scoring algorithms to calculate match percentages, identify critical skill gaps, and generate actionable improvement suggestions.

**Coral Bleaching Predictor** *Python, Data Processing*

- Processed large-scale environmental datasets to model and predict regional coral reef degradation.
- Implemented computational models to extract ecological patterns from raw environmental indicators, enabling accurate and rapid analysis.

**Automated PDF Parsing & Extraction Tool** *Python, Automation*

- Built a Python-based extraction pipeline to automatically parse complex, layout-heavy news PDFs.
- Automated the retrieval of core insights and metadata, drastically reducing manual document review time.

**Entity System & Game Logic Integration** *C#, Unity, Unreal Engine 5*

- Architected state-driven entity behaviors and custom visibility logic for dynamic game environments in Unity.
- Debugged and optimized core rendering pipelines, UI state management, and real-time interaction flows within Unreal Engine 5.

**Project Management Dashboard** *JavaScript, HTML/CSS*

- Developed a responsive, lightweight web dashboard to organize, track, and manage complex project tasks.
- Designed interactive UI components to streamline daily workflows and task arrangements for end users.