ABHINAY GEDELA

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 github.com/Abhii200   in linkedin.com/in/gedela-abhinay-65836628b   🔗 My Portfolio

WORK EXPERIENCE

Jan 2025 – Present	**Software Engineer Intern, Bluconn**
	• Designed and developed a production-grade mock server to simulate WhatsApp Business API flows, enabling robust testing of enterprise messaging workflows before deployment.
	• Engineered key business modules including:
	• Menu Management System for interactive automated customer service flows.
	• Leave Management and Overtime Tracking with approval logic via conversational UI.
	• Support Ticketing System allowing users to send text, voice, and image-based queries, automatically routed to manager email.
	• Expense Management with end-to-end submission and approval workflows
	• Implemented webhook listeners and real-time message processing to emulate authentic WhatsApp behavior.
	• Significantly reduced deployment risks by allowing pre-production validation of WhatsApp-based enterprise automations

May 2025 – Dec 2025	**Software Engineer Intern, Bizcraft Advisors**
	• Automated UI tests using Playwright and TypeScript, enhancing test coverage and reliability.
	• Wrote and executed Jest tests for 15+ Express.js endpoints, boosting backend stability and reducing production issues.
	• Streamlined Form 16 data extraction using OpenAI and Azure Form Recognizer, achieving 95% accuracy and cutting processing time by 80%.
	• Built an ML model using LLMs to classify 60+ file types by combining text and image embeddings (OpenAI, Sentence Transformers, Hugging Face), stored in ChromaDB and evaluated with Pinecone, reaching 87.5% accuracy.
	• Developed and tested a ledger prediction system for invoices, bank statements, and receipts using OpenAI embeddings and ChromaDB for precise, scalable classification.

PROJECTS

MAGICAL DB, http://www.manjarilab.com/databases/magicaldb/index.php ☐
- Developed a dynamic website for Hyderabad Central University to explore gene interactions.
- Engineered and launched the MAGICAL DB platform to enable efficient exploration of gene interactions, reducing research time by 50%.
- Optimized database performance and implemented essential backend features.
- Visualized and analyzed large datasets using Cytoscape, aiding in valuable insights and informed decision-making.

BhimavaramOpen (Tennis Tournament), https://www.bhimavaramtennis.com/ ☐
- Architected and managed database schema for player, match, tournament schedule, and result information storage.
- Implemented a comprehensive player profile management system, facilitating personal detail modification, photo uploads, and match stats tracking.
- Conducted rigorous unit tests and comprehensive testing to debug backend code and ensure seamless cross-browser and cross-device functionality.

VirtualMouse, https://github.com/Abhii200/Virtual-Mouse ☐
- Developed a real-time virtual mouse using webcam input and hand gesture recognition for hands-free computer control.
- Implemented smooth cursor tracking with coordinate mapping and smoothing algorithms, and gesture-based click detection via thumb-index finger distance with adjustable sensitivity.
- Integrated PyAutoGUI for cross-platform automation with boundary constraints and fail-safe mechanisms.
- Added a desktop shortcut for easy and quick access to the application.

DocuMind - AI Document Chat & Summarizer, https://document-chat-summarizer.vercel.app/ ☐
- Developed a full-stack web application using FastAPI (Python) and React.js that intelligently extracts text from PDFs and images through AI-powered OCR, automatically generates document summaries using Google Gemma 3n model and enables interactive Q&A conversations about content.
- Implemented advanced features including drag-and-drop file uploads, real-time chat interface, multi-model AI fallback systems.
- Successfully deployed on cloud platforms (Render/Vercel) with responsive UI design, RESTful API architecture, and integrated OpenRouter's dual AI model system (Llama Vision + Gemma) for enhanced document understanding and analysis.

EDUCATION

2022 – 2026	**Bachelor of Degree: Computer Science & Design, SRKR Engineering College**
2020 – 2022	**Intermediate, Adithya Junior College**

TECHNICAL SKILLS

Programming Languages
C | Java | Python

Web Development
HTML | CSS | Javascript | Php | MySQL | MongoDB | PostgreSQL

Frame Works & Runtime
FastAPI | Playwright | React.js | Express.js | Node.js | Nest.js

Tools
Git | Blender | 3D Maya | Docker | VS Code | Azure

CERTIFICATES

- Html, Css, JavaScript
- Java and Python
- Postman API