

Rishi Chowdary

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SUMMARY

Data Science professional with hands on experience in developing data driven solutions , **AI powered chatbots** and **Fullstack** applications. Expertise includes deploying **Agents**, **machine learning models**, designing automation tools, and building end-to-end applications using **Python**, **NLP frameworks**, **Agentic AI** and **deep learning** libraries. Recent projects demonstrate measurable improvements in Agents, text recognition, **computer vision**, **predictive analytics**, and **Dashboarding**, aligning well with AI engineering.

TECHNICAL SKILLS

- **Programming Languages:** Python, R Programming
- **Database:** SQL, PostgreSQL, Supabase
- **Data Science & Analytics:** Statistics, Predictive Modeling, Time Series Analysis, Power BI, Tableau, Feature Engineering, Data Cleaning
- **Cloud & Full Stack Development:** Flask, Amazon Web Services, Azure, Google Cloud Platform, Node JS, Docker, Fast API, React JS, Typescript, Next.js
- **Machine Learning & AI:** Natural Language Programming, Generative AI, Machine Learning, OCR, Computer Vision, Deep Learning, LLM, Prompt Engineering, MLOps, CI/CD Pipelines, Git, Multi Agents system, MCP, RAG, Transformers

WORK EXPERIENCE

Ariana.Digital

Aug 2025 – Oct 2025

Founding AI Engineer

- Designed and developed an AI interview platform enabling candidates and recruiters to join virtual meeting rooms where an autonomous interviewer bot conducts structured, voice-based interviews in real time.
- Integrated multimodal AI and real-time communication, combining **OpenAI Realtime**, **Twilio Video**, and **WebRTC** for dynamic speech recognition, response generation, and contextual conversation management.
- Built scalable backend architecture using **Supabase**, **Next.js**, and **Node.js**, featuring dynamic prompt databases, session management, and role-based context injection for personalized interview flows.

Everite Solutions (Client: Ming Entertainments)

Jan 2025 – Aug 2025

AI Engineer

- Led requirements gathering and process mapping for WhooCrew, a **multi-agent AI** recruitment platform.
- Collaborated with recruiters, hiring managers, and the AI engineering team to define workflows for candidate ranking, outreach, contract generation, and job assignment.
- Analyze recruitment processes, identifying opportunities for automation that resulted in a projected 95% reduction in manual hiring.
- Partnered with data and engineering teams to validate integration points with **Supabase**, **PostgreSQL**, and **FastAPI**.

Selective Insurance

May 2024 - Dec 2024

Data Scientist Intern

- Automated **data extraction** in **Azure ML Studio** from ACORD form PDFs using **Tesseract OCR** and **OpenCV**, enhancing text recognition accuracy by 20% and reducing manual processing by 30%, demonstrating scalable deployment of AI pipelines.
- Analyzed 1 million workers' compensation claims using **Pandas** and **Natural Language Programming**; built **LDA** models that improved accuracy from 58% to over 65%, showcasing effective prompt engineering and model optimization techniques.
- Led a cross-functional project developing **Power BI** dashboards in collaboration with interns, uncovering trends and bottlenecks to integrate data insights into enterprise-level AI solutions.
- Delivered **presentations** to senior management detailing topic modeling findings using the **Gensim LDA** algorithm with **advanced visualizations** such as **dendrograms**, **network graphs**, and **SHAP** values.

Everite Solutions

Jan 2022 - May 2023

Data Analyst Intern

- Collaborated with the business team to create 20+ **Power BI** dashboards for clients, increasing client satisfaction by 30%.
- Produced 15 reports for COVID testing across 8 different industries, providing critical insights from over 100,000 data points.

PROJECTS

Historic Chatbot

May 2025 - Present

- Designed and deployed "Historic Chatbot", an AI-powered educational platform that enables users to converse with historical figures (e.g., Albert Einstein, Henry George) via voice and chat to enhance academic learning.
- Integrated **LangChain**, **CrewAI**, and **OpenAI LLMs** for **Retrieval-Augmented Generation (RAG)** with real-time conversational flow; leveraged **Pinecone** for vector search and **Supabase** for user data management.
- Built evaluation modules using gamified assessments to test learning outcomes; deployed the application using **FastAPI** on **GCP**

EDUCATION

Stevens Institute of Technology

Sep 2023 - May 2025

Master's, Data Science

- **Coursework:** Machine Learning, Statistical Methods, Deep Learning, Marketing Analytics, Data Visualization, Optimization for Data Science, Time Series Analysis, Supply Chain Analytics