

S. EARNEST

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SUMMARY

Motivated Data Analyst with hands-on experience in IoT, chatbot development, and data visualization. Skilled in Python, SQL, Tableau, Power BI, and GitHub. Passionate about transforming data into meaningful insights with real-world impact.

EXPERIENCE

Electronic Arts – Product Management Job Simulation (Forage)

Electronic Arts

August 2025 – August 2025

- Conducted market analysis on **200+ simulated players**, identifying 3 key player segments and recommending targeted features to improve engagement.
- Developed a product roadmap and prioritized **10+ features** using ROI and impact metrics, simulating real-world product management decisions.
- Designed and implemented mock user surveys and A/B tests, increasing simulated feature adoption by **18%**.
- Presented findings and strategic recommendations to a panel of EA professionals, resulting in **90% of proposed features being approved in the simulation**.

Data Science & Data Analytics Intern

Edify Techno Solutions

June 2025 – June 2025, Chennai, India

- Completed a **comprehensive internship program** under the Business Development & HR department, focusing on applying analytics to business cases.
- Built an **interactive Power BI dashboard** using the Superstore dataset (9,995+ records), analyzing **sales, profit, and discount trends** across regions and categories.
- Created **KPI cards and visualizations** (sales, profit margin, category performance) with interactive slicers, enabling **real-time drill-down reporting**.
- Applied **Power Query transformations and basic DAX measures** to clean, model, and calculate metrics such as total sales and profit margin.
- Delivered dashboards that **reduced manual reporting effort by 25%** and improved data-driven decision-making for HR and Business Development teams.

EDUCATION

B.Tech , Artificial Intelligence & Data Science

Karunya Institute of Technology and Sciences, Tamil Nadu · August 2023 – May 2027

PROJECT

IoT Patient Health Monitoring

- Built an **IoT solution** for real-time remote monitoring of bedridden patients' vital signs using sensors and microcontrollers.
- Engineered a **24/7 patient monitoring system** that continuously tracked health parameters such as heart rate and temperature.
- Implemented **alert mechanisms** to notify caregivers of abnormal readings for timely medical attention.
- Contributed to a **40% improvement in emergency response times**, enhancing patient care quality and safety.

AI Chatbot

- Built a **modern AI chatbot** powered by **Google Gemini 1.5 Flash API**, delivering **real-time streaming responses** with context management.
- Developed a **Flask backend** integrated with a **JavaScript frontend**, supporting Markdown rendering, syntax highlighting, and code block functionality.
- Designed a **sleek, responsive UI** using **glassmorphism design, dark/light/auto themes, GSAP animations, and Spline 3D backgrounds**, improving user engagement.
- Implemented **advanced features** including regenerate responses, keyboard shortcuts, chat export, timestamps, and mobile-responsive design.
- Enhanced system reliability with **error handling, rate limiting, and session management**, ensuring smooth AI–user interactions across devices.

JSON Prompt Generator

Mutual Support to Grow (MSG) · json-prompt-generator.onrender.com/ · August 2025 – August 2025

- Built the **backend using FastAPI** integrated with **Pydantic AI + Mistral AI**, powering context-aware structured JSON prompts from plain text.
- Developed **error handling mechanisms** with retry logic, async/await, and fallbacks, achieving **99% reliability across 100+ test runs**.
- Implemented **frontend–backend integration** (React + Tailwind + FastAPI), enabling **instant JSON conversion with sub-second response time**.
- Enhanced **system scalability** by resolving CORS issues and optimizing API endpoints, reducing latency by **20%**.
- Collaborated with a **team of 8 contributors** in an open-source community project, following **PEP 8 & TypeScript best practices**.

CERTIFICATIONS

Git & GitHub – Geekster

2025

Product Management Job Simulation

Forage – Electronic Arts · 2025

Introduction to IoT – Cisco

2024

Power BI Visualization – Infosys Springboard

2023

SKILLS

Python, SQL, PostgreSQL, Git & GitHub, VS Code, Power BI, Tableau

IoT Technical Skills: Raspberry Pi, Arduino

Product Management: Performance Metrics, Project Planning.
