

# SUJAL MAHESHWARI

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## WORK EXPERIENCE

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**AI Data Scientist Intern, Basal AI**  
Bengaluru, Karnataka, India (Remote)

*May 2025 – Aug 2025*

- Built a data pipeline on Azure Compute to periodically extract Shopify data using the Admin API and perform web scraping for historical records.
- Developed an end-to-end AI tool powered by a fine-tuned GPT-4.1 model trained on organization-specific data automatically generating professionally written articles from short contextual snippets.
- Created a podcast analysis feature that extracts content highlights and speaker descriptions from a given podcast link, enabling easier future reference and reuse.
- Integrated GitHub Actions to enable CI/CD workflows for pipeline deployment and testing.

**LLM Engineer, Patent Work**

*April 2024 – July 2024*

**Patent:** Namaste Enabled Service Robot for Hospitality Industry

**Application No:** 202411035697

- Designed and developed an NLP-based keyword extraction chatbot using rule-based filters.
- Fine-tuned GPT-2 on domain-specific corpora to enhance contextual awareness and dialogue flow.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline for document-grounded response generation.
- Contributed to a patentable AI system by integrating multiple LLM-based modules into a unified chatbot experience.

## EDUCATION

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- **Bachelor of Technology in Computer Science Engineering (AI and DS)** *Sept 2022 - July 2026*  
Graphic Era Deemed to be University, Dehradun, Uttarakhand
- **Relevant Coursework:**  
Data Structures in C, Statistical Data Science, Data Analytics with R, Mathematics for Machine Learning, Design and Analysis of Algorithms, DevOps on Cloud

## SKILLS & DEVELOPMENT TOOLS

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- **Programming:** C/C++ (4 yrs), Python (4 yrs), JavaScript (1 yr)
- **AI/ML:** Scikit-learn, PyTorch, Langchain, Langgraph, Anthropic's MCP SDK
- **Web Development:** Flask, Streamlit, FastAPI, ReactJS
- **Databases:** SQL, MongoDB, PostgreSQL
- **Cloud Services:** Azure AI Foundry, Azure Web Applications, Azure Fabric, Azure Data Lake
- **DevOps & Tools:** Git, GitHub Actions, Docker, Jenkins, Linux (basic)
- **Tools:** Git, VS Code, Linux, Power Automate (Desktop and Cloud), Copilot Studio
- **Certifications:** DP-900 (Microsoft Azure), Generative AI (AWS + DeepLearning.AI), Data Analytics (IBM), AWS Certified Cloud Practitioner

## PROJECTS

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**MediMatch – AI Organ Transplant Prioritization**

*[Visit the project](#)*

Developed an AI backend using LLaMA 3.2 to analyze medical reports and assign severity scores for real-time transplant prioritization. Integrated Python-based GenAI with a secure Node.js/Express backend.

**NoteStream – YouTube Transcript Summarizer**

*[Visit the project](#)*

Built a productivity tool using Streamlit that converts YouTube transcripts into clean, readable Markdown notes using AI-based chunking and summarization.