DEEP PODDER

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OBJECTIVE

AI/ML Engineer and BCA graduate specializing in building custom, data-driven solutions for businesses. I leverage expertise in Python, PyTorch, and Generative AI to develop intelligent systems for tasks like workflow automation, sentiment analysis, and predictive modeling. Seeking to collaborate on impactful freelance projects where I can apply my skills to deliver measurable results.

EDUCATION

Bachelor of Computer Applications (BCA)
Institute of Engineering and Management, Kolkata
(Expected Graduation: 2026)

INTERNSHIPS

AI Solutions Intern – Future Tech Wizard *(Mar 5, 2024 – May 6, 2024)*

- **Developed an AI-powered Resume Processing & Job Matching Platform improving recruitment efficiency.**
- **Built a multi-method PDF parsing pipeline (LangExtract + pdfplumber + PyMuPDF) for robust resume data extraction with 85–90% accuracy.**
- **Designed TF-IDF & cosine similarity–based job matching algorithm, achieving 87% precision in recommendations.**
- **Implemented skills gap analysis & personalized learning paths, enhancing candidate career guidance.**
- **Deployed a FastAPI-based backend with JWT authentication, SQLAlchemy ORM, and scalable APIs supporting 100+ concurrent users.**

SKILLS

- **Programming Languages: Python, Java, OOPs, Data Structures and Algorithms (DSA)**
- **Database: PostgreSQL, MySQL, ChromaDB**
- **Data Science Skills:**
    - **Python: Proficient in the language; used extensively for scripting, automation, and DSA problem solving.**
    - **Machine Learning: Hands-on experience with regression, classification, clustering algorithms (Linear/Logistic Regression, Decision Trees, Random Forests, SVM, K-Means); model evaluation, and hyperparameter tuning.**
    - **Deep Learning: PyTorch, implemented CNNs, RNNs, Transformers, experience with optimizers (Adam), loss functions, and model architecture design.**
    - **Natural Language Processing (NLP): Text preprocessing, TF-IDF, embeddings, semantic similarity, and AI-enhanced classification.**
    - **Generative AI: Practical experience with Google Generative AI API, Phi, LangGraph, LangSmith and other frameworks for content generation, semantic understanding, agent-based systems, and workflow automation.**

PROJECTS

RAG Application

• **Built a Retrieval-Augmented Generation (RAG) chatbot using LLMs to answer customer and employee queries from policy documents and synthetic datasets.**
• **Implemented LangGraph state management for persistent conversational memory and Jina embeddings + ChromaDB for efficient document retrieval.**

Sales Recommendation Engine

- Built an AI-powered recommendation system to suggest products based on recent purchases and intended buys.
- Leveraged PostgreSQL for structured data storage, Redis for caching frequent results, and Kafka for real-time sales data streaming.
- Solved the problem of boosting cross-sell/upsell opportunities by delivering fast, personalized recommendations.

PI/PHI Detector (Rally Ticket Integration)

- Designed and implemented a **data privacy detection tool** for identifying **Personally Identifiable (PI)** and **Protected Health Information (PHI)** within **Rally ticket data**.
- Automated data extraction from Rally using pyrally, streamlining **ticket ingestion workflows**.
- Developed **RESTful APIs** with **FastAPI** and defined precise data contracts using **Pydantic** models.
- Integrated **Agentic AI reasoning workflows** with **Ollama-hosted LLM specifically LLaMA** for **semantic analysis** and **context-aware detection** of sensitive content.
- Ensured scalability and robustness through **modular architecture** and **structured reasoning loops**.

CERTIFICATIONS

- **Azure DevOps for Beginners – LinkedIn, Aug 2024**
- **Becoming an AI-First Product Leader – LinkedIn, Dec 2023**
- **Introduction to Artificial Intelligence – LinkedIn, Dec 2023**