DEEP PODDER

AI/ML Engineer

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**OBJECTIVE  
BCA graduate (2026) with a solid foundation in computer science and a strong passion for data science and AI. Skilled in Python, C, C++, Java, and DSA, with hands-on experience in machine learning, deep learning (PyTorch), NLP, and Generative AI. Seeking a data science internship where I can apply my skills to build impactful, data-driven solutions.**

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

**SKILLS**

* **Programming Languages: Python, C, C++, Java, Data Structures and Algorithms (DSA)**
* **Database: RDBMS**
* **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: Skilled in PyTorch; implemented CNNs, RNNs, LSTMs, Transformers, experience with optimizers (Adam, SGD, RMSprop), 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, and other frameworks for content generation, semantic understanding, agent-based systems, and workflow automation.**

**PROJECTS**

* **Twitter Sentiment Analysis**
  + **Analyzed tweet sentiments using BERT, PyTorch, and HuggingFace transformers.**
  + **Used TensorDataset, DataLoader, AdamW optimizer, and learning rate scheduler for model training.**

**GitHub link -**

* **RAG Application with Ollama and Streamlit**
  + **Built a Retrieval-Augmented Generation (RAG) app using LLaMA models and Ollama.**
  + **Developed a Streamlit-based UI for user-friendly query answering from custom datasets.**

**Streamlit link -**

* **Stock Recommender using Agentic AI**
  + **Created a stock recommendation engine using real-time data from Phi Data.**
  + **Integrated ML models and intelligent agentic flows to generate actionable financial insights.**

**Streamlit link -**

* **Skill Gap Analyzer using Agentic AI**
  + **Designed a tool to identify employee skill gaps using Agentic AI, LangGraph, and Streamlit.**
  + **Utilized tools like PDFPlumber, pdf2image, Tesseract, and GLM4 for document parsing and skill assessment.**
* **PI/PHI Detector (Rally Ticket Integration)**

**FastAPI | Pydantic | pyrally | Agentic AI | Ollama | LLMs | Data Privacy | NLP**

* 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 LLMs (e.g., LLaMA, Mistral)** 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**

** Deep Learning**

** Natural Language Processing (NLP)**

** Generative AI**

** Transformer Architectures**

** Data Structures and Algorithms (DSA)**

** TensorFlow**

** PyTorch**

** Data Analysis**

** Data Science**

** Version Control (Git)**

** NumPy**

** Pandas**

** Seaborn**

** Matplotlib**

** Scikit-learn**

** Database Management**

** AI Model Deployment**

** Skill Gap Analysis**

** Resume Parsing**

** Web Scraping**

** Agentic AI**

** Phi Data**