

# 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.
- **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.
- **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.
- **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.

### CERTIFICATIONS

- Azure DevOps for Beginners – LinkedIn, Aug 2024

- **Becoming an AI-First Product Leader – LinkedIn, Dec 2023**
  - **Introduction to Artificial Intelligence – LinkedIn, Dec 2023**
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