Abhinav

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EDUCATION

University of Westminster   London, United Kingdom
Master of Science in Data Science and Analytics   Jan 2024 - Jan 2025
Awards: Westminster Employability Award -Gold.
Grade: First class with Distinction.

University of Engineering & Management   W. Bengal, India
Bachelor of Technology in Computer Science   Jun 2018 - Jun 2022
Awards: Chancellor's Award for Tech-Maker 2021 and 2022.
Grade: First class with Distinction.
Published r*esearch paper:* Dual-Mode Enabled IoT-Based Smart Balcony Gardening in Urban Area Link.

PROFESSIONAL EXPERIENCE

Python Developer Intern | **ContractPodAi** | **United Kingdom**   May 2024 - Aug 2024
- Fine-tuned a large language model (LLM) using BERT architecture to enhance performance and accuracy for specific tasks.
- Employed advanced optimization techniques to identify optimal hyperparameters, improving model efficiency and generalization.

Junior Data Scientist Consultant | **Cognizant Technology Solutions** | **India**   Jul 2022 - Nov 2023
- Conducted in-depth analysis on datasets of over 10 million records for a European client, identifying trends and patterns to deliver actionable insights.
- Designed and deployed a machine learning model to predict financial data with 90% accuracy, enabling data-driven decision-making for the client.

Artificial Intelligence & Analytics Intern | **Cognizant Technology Solutions** | **India**   Jan 2022 - Jul 2022
- Acquired proficiency in MSBI tools (SSIS, SSAS, SSRS, Power BI, Azure Data Factory), data warehousing, SQL (SQL-Server, MySQL), ETL processes, and OLAP methodologies.

Machine Learning Intern | **Tata Steel** | **India**   May 2020 - Jun 2020
- Gained hands-on experience in Industry 4.0 and Machine Learning. Developed projects using simple ML models, demonstrating proficiency in data analysis and model implementation.

LEADERSHIP

Team Lead- Artificial Intelligence Internship, Cognizant Technology Solutions   **Jan 2022 - Jul 2022**
Student Innovation Head , University of Engineering and Management   **Mar 2020 - May 2022**

SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), SQL (PostgreSQL, MySQL, SQL Server), Git.
Data Science: Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs, Transformers), Generative AI (LLMs, Hugging Face, Ollama), NLP, Exploratory Data Analysis (EDA), Data Visualization (Matplotlib, Plotly, Power BI).
Big Data & Cloud: Microsoft Azure, AWS, SQL & NoSQL, ETL, Spark, Hadoop.
Soft Skills & Leadership: Data Science Consulting, Client Engagement, Technical Documentation, Team Coordination, Public Speaking, Presentation Skills.

PROJECT WORK

MSc. Dissertation: AI-Driven University Website Chatbot for Course Information Retrieval.
- Designed and developed an AI-powered chatbot using Large Language Models (LLMs) (Mistral-7B, Gemma-2-9B, Llama-3.2) and Retrieval-Augmented Generation (RAG) to enhance course information retrieval on university websites. Implemented web scraping to extract structured course data, fine-tuned models for accuracy, and integrated a vector database for efficient query-based response generation.

Think AI: Intelligent Multi-Domain Problem-Solving System.
- Developed using the Llama-3.2-70B model via Groq API, LangChain framework, and Streamlit, generates solutions across 25 dimensions to provide comprehensive, multi-perspective problem-solving insights. Link.

AI Therapist: Emotionally Intelligent Mental Health Chatbot.
- Built an empathetic chatbot using OpenAI's GPT-3.5 to render emotionally intelligent mental health support, fostering a safe space for confidential self-expression, accessible anytime, anywhere. Link.

CERTIFICATIONS

- AZ-900: Microsoft Azure Fundamentals | *Microsoft* | Link.
- DP-900: Microsoft Azure Data Fundamentals | *Microsoft* | Link.
- AI-900: Microsoft AI Fundamentals | *Microsoft* | Link.
- Transformer Models and BERT | *Google Cloud* | Link.
- MLOps Fundamentals: CI/CD/CT Pipelines | *Udemy* | Link.
- Microsoft Power BI - The Practical Guide | *Udemy* | Link.