Dupesh Nayak

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PROFESSIONAL SUMMARY

AI Engineer possessing strong foundational skills in **Agentic AI**, **Machine Learning**, and **Data Analytics**. Proven track record of delivering quality **AI** solutions to Enterprises .

SPECIALIZED SKILLS

- **Programming Languages**: Python, .NET, HTML, CSS, Git/Github, Node.js, Arduino
- **AI & ML**: MLOps, LLMEval, LangChain, LangGraph, Scikit-learn, LMStudio, CrewAI, NLP, LlamaIndex, Ollama
- **Automation Tools**: RAG, n8n, CUDA, Terraform, Azure
- **Data Analysis**: SQL, Redis, Tableau, Power BI, Dash, Plotly, Excel
- **Certifications**: Lean Six Sigma Green Belt, Python Fundamentals, C# Programming Basics

EXPERIENCE AND CERTIFICATIONS

AI/ML Engineer - **Accure AI** - Bengaluru   **May 2025 - Present**
- Designed and delivered customized AI solutions to enterprises globally.
- Collaborated with clients across the US, Uganda, and UAE to automate business workflows using **AI-driven solutions**.

Vivartan Technologies - Industrial Trainee - Bengaluru   **Sept 2024 - Jan 2025**
- Completed hands-on training on Embedded System, **IoT** and AI, focusing on **device programming** and cloud integration.
- Completed 5 major projects during training, comprising solving real world problems using embedded system and AI.

Internship at BSNL - Technical Intern   **Jun 2023 - Jul 2023**
- Collaborated with engineering and compliance teams to implement process improvements, automated network diagnostics using scripting, reducing complex troubleshooting time by 30%.
- Gained hands-on experience in streamlining workflows and prioritizing features for efficient execution.

PROJECTS

AccureMD - Real-time Transcription, Documentation App   **Jun 2025 - Sept 2025**
- Lead End-to-End development of AccureMD, A Medical Transcription App with VAD and Speaker Identification Features.
- Partnered with Microsoft to streamline deployment workflows and oversee publishing across production environments.

Fine-tuned LLM using Ranked Adapters   **Oct 2024 - Feb 2025**
- Engineered a fine-tuning pipeline to boost **LLM performance** on medical terminology, achieving a 23% accuracy gain by integrating diverse domain-specific knowledge bases for contextual grounding.
- Developed a **vector database** knowledge base and retrieval system, utilizing text embeddings and chunking techniques.

Customer Survival Analysis using AI and Data Analytics   **Mar 2023 - Jun 2023**
- Leveraged **Data Analytics** practices to perform predictive analysis to estimate the lifetime value and customer churn rate.
- Built a Random Forest deep learning model with 0.85 ROC-AUC by mitigating class imbalance with weighted modeling.

E-Commerce Website Automation and Testing using Selenium   **Oct 2022 - Feb 2023**
- Designed test cases for core e-commerce functionalities, e.g., shopping cart, payment gateway, checkout process, etc., using AI agents for accelerated process automation and 20% reduction in testing time.
- Leveraged **SQL** for validating database data integrity during integration testing, utilized HTML, CSS for Functional Testing.

EDUCATION

Manipal Institute of Technology, Bengaluru   **Oct 2021 - Aug 2025**
*Bachelor of Technology (B.Tech) in **Electronics and Communication (Artificial Intelligence)** (68%)*   *Bengaluru*

Holy Cross School, Chinmaya   **Jun 2017 - Jul 2021**
*CBSE (Science) with **Physics, Chemistry, Mathematics and Computer Science** (86.5%)*   *Bokaro*

INTERESTS

- Contributor of Do Help Foundation and Volunteer Service Organization (VSO), assisting individuals belonging to BPL.
- Lead vocalist for the MIT band, winner of high school volleyball tournament and music competitions.
- Soft Skills: *Problem-solving, Critical Thinking, Time Management, Strategic Planning*