MANAS JHA

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SUMMARY

Machine Learning Engineer Intern and Co-Founder with substantial experience in building LLMs from scratch and mastering programming languages like Python. Involved in designing a high-accuracy dog breed classification system and a real-time inventory system that significantly reduced losses. Aiming to apply skills in machine learning and leadership to drive impactful solutions and enhance the technological advantage in the target role.

EDUCATION

Gautam Buddha University **2022 - 2026**

B.Tech, Information Technology (GPA: CGPA: 8.0/10)

- **Achievements:** Learned core concepts of machine learning, data science, and cloud computing through coursework and hands-on projects, actively participated in national-level hackathons to apply skills in real-world scenarios
- **Coursework:** machine learning, data science, cloud computing

EXPERIENCE

Sarthi.me | *Co Founder* **May 2025 - Present**

- Collaborated with cross-functional team members to architect an emotionally intelligent AI chatbot, incorporating real-time adaptive feedback and quality assurance measures to enhance user engagement.

Marshee Pet Tech | *Machine Learning Engineer Intern* **May 2025 - Present**

- Designed and deployed a dog breed classification system with 88% accuracy, enhancing user experience by integrating unit and integration testing to ensure system robustness

Agro Farm Ventures Pvt Ltd | *Computer Vision Engineer Intern* **Apr 2025 - May 2025**

- Developed a real-time, ML-powered camera-based inventory system, leveraging automated test case design to verify early stock-out predictions, which reduced losses by 10% and boosted sales.

Samsung Innovation Campus | *Trainee* **Jun 2024 - Sep 2024**

- Completed training in machine learning, neural networks, and deep learning; developed and validated a Gym Nutrition AI Agent using automated testing principles and quality checks, enhancing the accuracy of dietary recommendations for users

PROJECTS

RAG-Based AI Chatbot for College Queries **Dec 2024 - Mar 2025**

- Built a Retrieval-Augmented Generation (RAG) chatbot using a vector database and a knowledge graph DB to answer college queries with high contextual accuracy.
- Deployed with FastAPI and MongoDB, integrating a fine-tuned open-source LLM for inference—achieved 30% faster response time in a pilot with 2000+ student users.

Stubble Fire Detection & Prevention System **Feb 2025 - Apr 2025**

- Designed a prototype for stubble burning detection using VIIRS & MODIS satellite imagery, training custom machine learning and deep learning models to accurately identify fire hotspots in agricultural areas.
- Implemented automated early-warning alerts to help farmers and authorities respond quickly, reducing crop loss and improving air quality monitoring.

SKILLS

- **Programming:** Python, Java
- **Backend Development:** FastAPI, Flask, Git, JWT
- **Databases:** SQL, MongoDB, Neo4j, Supabase, Vector Databases, Knowledge graph
- **AI & ML:** Machine Learning, Generative AI, LLMs, LangChain, Computer Vision, Deep Learning, Natural Language Processing, Neural Network
- **Cloud & DevOps:** Google Cloud (GCP), Docker, CICD
- **Automation:** Selenium, API Integration
- **Libraries:** scikit learn, Tensorflow, Pytorch, Numpy, Pandas, Matplotlib, Seaborn
- **Quality Assurance:** Software Testing Concepts, Mobile App Testing
- **Methodologies & Process:** Agile Methodologies

HACKATHONS & COMPETITIONS

- Winner | Agritech Hackathon (Microsoft Azure Sponsored) | Developed an AI-powered stubble fire detection system using satellite imagery, enabling real-time monitoring and early alerts. Designed an interactive dashboard for fire event tracking, showcased to Microsoft engineers during the Grand Finale.