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**PROFESSIONAL SUMMARY** Software Engineering Intern candidate with a strong foundation in Data Structures & Algorithms, OOP, and full-stack development. Passionate about building scalable, reliable software systems and solving complex problems in collaborative environments. Seeking to contribute to Microsoft's engineering teams.

#### TECHNICAL SKILLS

- Languages: C++, Java, Python, JavaScript, SQL, HTML, CSS
- Backend & Cloud: Node.js, Express.js, Django, FastAPI, REST APIs, Microservices, CI/CD, Firebase
- Databases & Tools: MongoDB, PostgreSQL, MySQL, Docker, Git, GitHub, VS Code
- CS Fundamentals: Data Structures & Algorithms (DSA), OOP, DBMS, Operating Systems (OS), Computer Networks
- AI Libraries: LangChain, LangGraph, TensorFlow, Scikit-learn, Pandas, Hugging Face

#### WORK EXPERIENCE FROST SOLUTIONS | Hyderabad, Telangana (Remote) *Machine Learning Engineering Intern Oct 2024 – Dec 2024*

- Engineered automated data preprocessing pipelines, reducing model training time from 3 hours to 45 minutes.
- Integrated Python-based predictive services into backend systems, enabling real-time analysis for end-users.
- Optimized system observability by implementing automated feature extraction from live sensor logs (current, voltage, RPM).
- Collaborated with the engineering team to define requirements and deploy models that improved prediction accuracy by 18%.

#### PROJECTS ATLAS: Academic Agentic AI System | *Python, LangGraph, Docker, Cerebras Dec 2024*

- Designed a scalable multi-agent architecture using LangGraph to coordinate autonomous workflows and task scheduling.
- Implemented a Retrieval-Augmented Generation (RAG) system with FAISS and Notion API for reliable context retrieval.
- Containerized the application using Docker for consistent deployment and integrated a voice interface using Deepgram.

#### MERN Food & Video Platform | *MongoDB, Express, React, Node, Docker Nov 2024*

- Architected a secure backend using JWT authentication and Role-Based Access Control (RBAC) to manage permissions.
- Optimized media delivery using ImageKit integration and improved API response time by 30% through database indexing.
- Deployed the application using Docker Compose, enabling reliable one-command setup across different environments.

#### Next Word Predictor | *Deep Learning, LSTM, GRU, Python Oct 2024*

- Developed high-performance LSTM and GRU neural networks to model sequential text data.
- Optimized the tokenization pipeline and tuned hyperparameters to minimize perplexity on complex text corpora.

#### EDUCATION MIT Academy of Engineering | Pune, Maharashtra *Bachelor of Technology in Electronics and Telecommunication Engineering | Sep 2023 – Present*

- CGPA: 8.0
- Relevant Coursework: Data Structures & Algorithms, Operating Systems (OS), DBMS, Computer Networks (CN).

#### ACHIEVEMENTS & LEADERSHIP

- **Hackathon Rank:** Ranked in the Top 20 out of 500+ projects at WeMakeDev Hackathon (Meta & Cerebras) for building a Voice Agent using Docker MCP Toolkit.
- **Certifications:** NVIDIA Fundamentals of Deep Learning (2025); Oracle Cloud Infrastructure (OCI) AI Foundations Associate (2025).
- **Leadership:** Core Committee Member at CodeChef (MITAOE Chapter); managed logistics and fostered peer learning for coding competitions.