ADITI MISHRA

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PROFESSIONAL SUMMARY

Data Engineer and **AI Developer** with 3+ years of experience at IBM and ScaleUp Labs, skilled in building scalable **data pipelines** and fine tuning **SLMs** and **LLMs** for real world **AI solutions**. Proven track record of deploying **high performance AI agents** on cloud platforms to automate workflows, enhance **decision making**, and deliver measurable business impact.

PROFESSIONAL EXPERIENCE

ScaleUp Labs   **Boston, MA, USA**
Intern - AI Agent Developer   *May 2025 - Present*
- Fine tuned Small Language Models to improve response times by 50% and accuracy by up to 80%, selecting the best models for task specific AI agents in production.
- Designed and conducted RAG vs RAG + fine tuning experiments, achieving 30% better task performance with automation workflows.
- Integrated multimodal AI for real time image captioning, OCR, and reasoning, enabling perception based automation in production systems.

IBM   **India**
Data Engineer   *June 2022 - August 2024*
- Optimized ETL pipelines with Hadoop, Spark, and SQL, cutting latency by 25% and boosting data availability by 30%.
- Built real-time and batch data solutions on AWS, developing complex SQL queries and data models to integrate diverse sources.
- Developed and enhanced secure data exchange systems with API Gateway, SFTP, and Connect Direct, ensuring enterprise data compliance and enabling seamless system integration at scale.

Google   **India**
Lead of AI/ML/Data Science   *September 2021 - June 2022*
- Led teams in building data pipelines and machine learning models using Python, SQL, and Google Cloud Platform.
- Developed efficient ETL workflows and utilized Tableau for impactful data visualization, enabling data-driven decisions.

SKILLS

Programming & Data Engineering: Python, SQL, ETL Pipelines, Hadoop, Apache, Docker, Kubernetes, Git, Data Architecture, Problem Solving
AI & Machine Learning: AI Agent Development, Small & Large Language Models, Transformers, Model Pretraining & Fine-Tuning, RAG, Hugging Face, Tensorflow, Pytorch, Scikit-learn, Natural Language Processing (NLP)
Data Analysis & Visualization: Pandas, NumPy, SciPy, Matplotlib, Tableau, Predictive Analytics, Regression, Hypothesis Testing
Cloud & Databases: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure, MySQL

CERTIFICATIONS

- Cloud: 30 Days Google Cloud
- Apache Spark: Databricks Certified Associate Developer Apache Spark3
- Machine Learning: IBM Machine Learning with Python
- AWS Certified Cloud Practitioner

PROJECTS

AI Email Summarizer Agent
Python, Hugging Face, LLaMA-3
- Built an AI email summarizer with OAuth Gmail integration, cutting reading time by 90%.
- Fine-tuned LLaMA-3 models for abstractive summarization tasks, optimizing model parameters and tokenization to deliver high-quality summaries with low-latency inference suitable for real-time deployment.

SLM Agent Fine-Tuning
Hugging Face Transformers, TinyLLaMA, Phi-3
- Fine-tuned TinyLLaMA and Phi-3 models on curated datasets, achieving >85% accuracy for startup AI agents handling diverse automation tasks efficiently.
- Enabled real time inference (<1s) in production, powering startup AI applications efficiently.

EDUCATION

Clark University   **August 2024 - December 2025**
Master's, Data Science   *GPA: 3.7*

Dr. Abdul Kalam Technical University   **August 2018 - July 2022**
Bachelor's, Electronics Engineering   *GPA: 3.4*