Pragati Gupta

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Diligent Machine Learning Engineer and Cloud Engineer with 5 years of industry experience

Machine/Deep Learning	LLMs	MLOps	Tensorflow/Pytorch	Databricks	CI/CD Pipelines	AWS/Azure
Micro-services on Cloud	Full-Stack	Edge	JavaScript/Vue.js	Flask/Django	SAP · API Dev	SQL/NOSQL
Business Innovation (I&E)	GIT	Docker	JIRA/Confluence	Signal Processing	RADAR · Time Series	IoT

Work Experience

Solita, Helsinki   *Apr 2024 – Present*
Machine Learning Engineer
- Working as an AI architect to collaborate with a client to enhance the efficiency of patent claim analysis using large language models (LLMs).
- Designed and implemented production-grade multi-agent LLM systems to improve business processes for a construction company, enabling automation, decision support, and operational efficiency.

Truemed Oy, Espoo   *Feb 2023 – Mar 2024*
Machine Learning and Cloud Engineer
- Developed and optimized machine learning algorithms enhancing counterfeit detection and operational efficiency primarily dealing with computer vision
- Build AWS-based scalable cloud infrastructure from scratch for the company ensuring fault tolerance and high performance
- Implemented MLOps strategies, CI/CD pipelines, and iOS ML app development, collaborating across teams to deploy solutions meeting quality standards

Accenture Nordics Liquid Studio, Finland   *Nov 2021 – Jan 2023*
Senior Analyst
- AI and ML-Scale business-driven insights on the AWS cloud and orchestrating CI/CD workflows in AWS
- Product Innovation in Computer Vision with OpenCV, Deep Learning, IoT and Edge Computing
- Achieved AWS Certification in Cloud Development (DVA-C01)

Helvar Oy, Espoo, Finland   *Feb 2021 – Sep 2021*
Master's thesis worker - Data Scientist
- Solution to detect human presence using ML models in an indoor environment for lighting control
- Achieved the performance accuracy of 98.6% and proved the effectiveness of FMCW over PIR
- Components - FMCW Radar, Signal Processing, Data ETL, Rpi, AWS, Deep/Machine Learning

SAP LABS PVT LTD, BANGALORE, INDIA   *Jan 2017-Aug 2019*
Software Developer (ML/DS)
- Developed ML/AI add-ons and served 400+ incidents for Premium customers on both on-premise and Cloud in SAP Procurement solutions e.g. Chatbots and Product Recommendation in Shopping carts
- Accomplished 2 SAP Certifications- SAP Fiori Application Developer, SAP Fiori System Administration
- Conducted Data Science workshops across 3 locations and bagged recognition by senior managers

Education

DOUBLE M.S. IN DATA SCIENCE [Score 104/110]   *Sep 2019-Oct 2021*
Aalto University, Finland

Politecnico di Milano, Italy

B.E. IN COMPUTER SCIENCE [FINAL GRADE 8.91/10]   *Jun 2013-Jul 2017*
Thapar University, India

Projects/Trainings

Multi-Agent AI Platform on Databricks
Databricks, Python, PySpark, MLflow, LLM Agents, OpenAI SDK, CI/CD, LLMOps
- Architected and built a production-grade multi-agent AI platform on Databricks to unify data from multiple third-party systems and automate operational workflows.
- Implemented LLM-powered agentic workflows with semantic search, embeddings, vector stores, and autonomous data validation and consolidation.
- Led end-to-end delivery, including LLMOps, CI/CD, and scalable ingestion pipelines

AI-Powered Patent Claim Analysis – Large Global Technology Company
Azure, Vue.js, Flask, OpenAI (LLM Gateway), Docker, Azure DevOps, MLOps
- Built an LLM-based multi-agent system that automated patent claim analysis, reducing processing time from ~3 weeks to 0.5 hours per patent.
- Owned the solution end-to-end, from architecture and prompt engineering to MLOps, CI/CD, and production deployment.

Predictive Maintenance for Turbocharger Failures – Industrial Company
Databricks, PySpark, MLflow, Python, Delta Lake, Scikit-learn, Time-Series Modeling
- Developed a machine learning–based predictive maintenance system to forecast turbocharger failures using sensor time-series data.
- Built scalable Databricks data pipelines for feature engineering, model training, and validation.
- Improved operational reliability by enabling early failure detection and proactive maintenance.

Full Fledged AWS architecture set up for a start-up
AWS SDK, Cloud Formation, Code Deployment
- Setting up the Development, Test, Staging and Production environments in AWS for a startup.
- Automatic pipelines for code deployment and Quality checks

iOS application for running TFlite models on iPhones
Swift, Flutter, TFlite, AWS, ObjectiveC, OpenCV
- Converting the TF models to TF lite and developing handlers in swift for optimum CPU/GPU performace
- UI for better user experience for Deep learning models

Scalable TF models on light weight AWS lambda for parallel computation
AWS Lambda, OpenCV, Docker, TensorFlow, PyTorch
- Sticker Detection for medicinal packages using YOLOV5
- Shadow Corner detection in the vials and packages using UNet
- Scratch detection and Braille classification

TikTok in music landscape- by Sony Music Italy [Report | Code]
Python, Ensembles, Pandas, Random Forests, Management tools
- Identified best TikTok friendly songs to be supplied by Sony using ML models, 95% model accuracy
- Coordinated with management engineers to formulate how to upsurge revenues and to scout talent

Summer School with Coventry University & NHSx
- Entrepreneurial experience in healthcare proposing business model on conscious alcohol consumption