AMIT GUPTA

Senior AI Engineer | AI/ML Development | Python Expertise | Generative AI Specialist

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📍 Pune, India

SUMMARY

AI Engineering professional with close to 6 years of experience and with an M.Sc. degree in Mechatronics, expert in Python programming, large language models (LLMs), Gen AI and Agentic AI. Key achievements include deploying over 6 AI-driven solutions across various enterprise settings, achieving a 40% increase in operational efficiency, and integrating advanced AI stacks for Fortune 500 companies. Seeking a Senior AI Engineer position, where my skills in AI/ML development and data science will support your mission of enhancing investment processes to be more efficient, scalable, and insight-driven.

EXPERIENCE

ML/AI Specialist

UBS Asset Management (Via. Accenture Solutions Pvt. Ltd.)

📅 11/2024 - Present 📍 Pune, India

- Increased customer engagement and reduced query time 80% by building a RAG-based Azure OpenAI-powered chatbot using Langchain and Azure Functions.
- Built a LLM response evaluator using metrics such as Ranking, Relevancy and confusion matrix.
- Built multi-agent chatbot using Langgraph, Azure, CosmosDB and CRM. We have covered 14 usecases some of them are Sales recommendation, Feedback manager and topic recognition.
- Worked on Orchestrator, Agents, tools framework for multi-agentic AI.
- Deployment using GitLab CI/CD pipeline and Docker images.

Senior AI Engineer

Turabit Solutions Private Limited

📅 05/2024 - 10/2024 📍 Remote

- Improved chatbot efficiency by 15% by enhancing detection of greeting words.
- Finetuned open source LLM like Mistral and Llama 7B model using PEFT, QLORA technique using PyTorch and Huggingface.
- Built a RAG-based tools enabled AI agent for smooth onboarding of new joiners using Langgraph, Langchain, Pydantic.

Product Engineer

V-Labs Pvt. Ltd

📅 02/2023 - 04/2024 📍 Bangalore, India

- Implemented AI solution replacing legacy system, boosting performance from 35% to 91%.
- Applied deep learning and machine learning models, including RNN, LSTM, Transformers, BERT, and XGBoost, for advanced analytics.
- Experimented with Generative AI for text extraction using Llama 2, enhancing processing capabilities.
- Built a sentiment analysis pipeline for company's 10-K annual reports, improving financial insights using balance sheets.
- Conducted comprehensive statistical analysis for model validation, using descriptive and inferential methods.
- Led risk analysis and loan assessment projects to determine financial health of companies.
- Managed CI/CD for code version control using Azure DevOps, ensuring streamlined development processes.

KEY ACHIEVEMENTS

💎 **Chatbot Accuracy Improvement**
Enhanced chatbot accuracy by 85% using RAG, boosting efficiency significantly in ML operations.

💎 **AI Solution Optimization**
Enhanced AI solution accuracy from 35% to 91%, revolutionizing data handling processes.

💎 **Predictive Model Development**
Achieved 94% accuracy in predictive modeling, elevating chatbot precision by 30%.

💎 **Feature Reduction Success**
Reduced feature size by 25% via PCA in engineering tasks, enhancing data processing efficiency.

LANGUAGES

English
Proficient ●●●●○

Hindi
Native ●●●●●

German
Beginner ●○○○○

SKILLS

Agile | AWS | Azure | CosmosDB | Django | Docker | Fast API | Flask | Git | K-Means | MongoDB | Matplotlib | MLOps | NLP | NumPy | Pandas | Plotly | PostgreSQL | PyCharm | PySpark | Python | PyTorch | Scikit-learn | Seaborn | SpaCy | SQL | MCP | TensorFlow | GCP

FIND ME ONLINE

🌐 **LINKEDIN**
https://www.linkedin.com/in/amit-kumar-gupta-5005361a1/

EXPERIENCE

Research Engineer
Ciena and ENSUN(Full-time roles during M.Sc.)

📅 03/2022 - 01/2023　📍 India

- Forecasted telecom network outages & developed recommendation systems (Ciena)
- Designed anomaly detection using PCA, CI-based methods, & clustering (KMeans, DBSCAN)
- Built & deployed multi-class text classification system with ETL pipeline (ENSUN)

Programmer Analyst
Cognizant Technology Solutions

📅 11/2017 - 08/2019　📍 India

- Boosted client sales by 15% by designing PoC recommendation system using order history & time-series analysis
- Conducted feature engineering using PCA, reducing features by 25% while maintaining accuracy
- Performed hypothesis testing (t-test, z-test) to validate assumptions
- Built foundational expertise in backend development and agile collaboration

EDUCATION

M.Sc - Mechatronics
Universität Siegen

📅 10/2019 - 01/2023　📍 Siegen, Germany

- Thesis: Non-Rigid Puzzles without template
- Project: Explainable Pneumonia Detection using CNN (Image-based AI)

B.Tech
KIIT University

📅 07/2013 - 05/2017　📍 Bhubaneshwar, India

REFERENCES

Hasan Abu-Rasheed - Research Assistant, University of Siegen.

http://linkedin.com/in/hasan-abu-rasheed

Benjamin Hill – CEO, ENSUN GmbH

https://drive.google.com/file/d/1RygY3umEKqHts3xfH4UL9LPJ5QqT9CwO/view?usp=sharing

CERTIFICATION

Microsoft Azure AI-102: AI Engineer Associate

Microsoft

Generative AI – DeepLearning.AI

DeepLearning.AI | Accenture

MLOps

Udemy

AWS ML

Coursera | AWS

PROJECTS

SaGer: Small vendor CRM.

📅 08/2025 - Present　📍 Pune, India

Building a CRM for small street vendors to manage their sales, Sales prediction and community marketing platform. Deployed on GCP using automated CI/CD pipeline from GitHub.

- mysanvi.in

Automated-Portfolio maker

📅 05/2025 - Present　📍 Pune, India

Building a portfolio maker using Django, Python, Langgraph, Node.js and React. This enables uploading of documents such as CV, profile pic, certificates, references.

- Under 10 seconds portfolio is generated. AI agent fetches top 10 relevant latest jobs posted and also answers the query about profile to the hirer.

Master Thesis: Non-Rigid puzzles

📅 09/2022 - 01/2023　📍 Siegen, Germany

Focus on finding the correspondences of the non-rigid deformations of the shapes without any template. Descriptors such as HKS, SHOT, Geodesic distance, Gaussian curvature, eigenvalues have been used.

- The MSE was jumped from 2.61 to 2.31.