

# AMIT GUPTA

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

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📍 Pune, India



## SUMMARY

AI Engineering professional with overall 7+ 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.

### 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

## 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



Docker



Fast API



Flask



Git



MongoDB



Matplotlib



MLOps



NumPy



Pandas



Plotly



PyCharm



PySpark



Python



Scikit-learn



Seaborn



SpaCy



MCP



TensorFlow



GCP

## FIND ME ONLINE



LINKEDIN

<https://www.linkedin.com/in/amit-kumar-gupta-5005361a1/>

## INTERNSHIPS AND 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

## EDUCATION

### M.Sc - Mechatronics

#### Universität Siegen

05/2019 - 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>

## CERTIFICATIONS

### Microsoft Azure AI-102: AI Engineer Associate

Microsoft

### Generative AI - DeepLearning.AI

DeepLearning.AI | Accenture

### MLOps

Udemy

### AWS ML

Coursera | AWS

## INTERNSHIPS AND PROJECTS

### 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.

### INNCEPTION(Internship)

11/2021 - 03/2022 Remote

Gig work prediction for US seekers

- Used BERT based embedding to find the most relevant job for the people query.
- Used GPT to guide them how to proceed with the Gig.

### Research internship(Studentenarbeit)-Universität Siegen

10/2020 - 10/2021 Siegen, Germany

Project: Pneumonia classification from x-ray images

- Got data from a Kaggle project with 4600 imbalanced data.
- Processed data by rescaling, balancing, PCA
- Used XGBoost, clustering and ResNet50 convolutional model.

### iNeuron.ai(Internship)

05/2021 - 08/2021 Remote

Diabetes classification

- Data: Got data from a medical research team with 11 attributes.
- Data processing: Cleaning, Embedding, PCA, Clustering
- Models used: XGBoost for binary classification