

# Rohit Gupta

## PYTHON AI ENGINEER | DATA SCIENTIST

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### PROFESSIONAL SUMMARY

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Python AI Engineer and Data Scientist with hands-on experience building machine learning, NLP, and LLM-enabled workflows for real-world applications. Skilled in Python development, experimentation, model evaluation, prompt engineering, API integration, and deployment support. Experienced with conversational AI, content-generation workflows, OpenAI-style APIs, Hugging Face Transformers, and Azure/AWS-based implementation support. Familiar with retrieval-augmented AI concepts and agentic workflow patterns, with a strong foundation in REST APIs and backend integration. Pursuing M.Tech in Artificial Intelligence and Machine Learning, BITS Pilani (WILP).

### TECHNICAL SKILLS

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**Programming & Core Tools:** Python, SQL, JavaScript, TypeScript, Pandas, NumPy, Jupyter Notebook, Git, GitHub, Postman  
**AI/ML & NLP:** Statistics, EDA, data cleaning, data preprocessing, feature engineering, model training, model evaluation, cross-validation, hyperparameter tuning, error analysis, benchmarking, model optimization, sentiment analysis, summarization workflows  
**LLMs & Applied AI:** OpenAI API, Azure OpenAI concepts, Hugging Face Transformers, prompt engineering, structured outputs, conversational AI, assistant workflows, response validation, content generation workflows, RAG concepts, agentic AI workflow patterns  
**Frameworks, Backend & Cloud:** scikit-learn, TensorFlow, PyTorch, XGBoost, Flask, Django, React.js, Node.js, Express.js, REST APIs, MongoDB, MySQL, PostgreSQL, Docker, Azure, AWS, Firebase, SDLC, deployment, CI/CD awareness, MLOps concepts

### PROFESSIONAL EXPERIENCE

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#### MINDSMAP AI PRIVATE LIMITED | Data Scientist | Oct 2023 - Dec 2025

- Developed Python-based machine learning and NLP pipelines across data preprocessing, feature engineering, model training, evaluation, API integration, and deployment support.
- Built LLM-enabled conversational AI and content-generation workflows using prompt design, structured outputs, response validation, and application-level integration.
- Supported NLP use cases across text generation, summarization-style workflows, classification and sentiment-oriented analysis, and assistant-driven user interactions.
- Evaluated and benchmarked ML models and AI approaches using task-specific metrics, confusion matrices, threshold tuning, and iterative experimentation to improve accuracy and reliability.
- Packaged trained ML models and AI services behind REST APIs, while supporting deployment-oriented implementations in Azure and AWS environments.
- Collaborated with product and engineering teams to translate business requirements into scalable AI features and troubleshoot workflow or model-integration issues.
- Worked with OpenAI-style APIs and transformer-based tooling to prototype text generation, summarization, and prompt-driven application workflows.
- Assisted in context-aware and retrieval-grounded AI workflow experimentation, focusing on response relevance, structured outputs, and integration readiness.
- Contributed to debugging prompt, data-quality, and workflow-integration issues to improve reliability, user experience, and production readiness.

#### MILESTONEOS | Web Developer (MERN & Python) | May 2021 - Sep 2023

- Collaborated across frontend, backend, and database layers to support end-to-end feature delivery, API integration, and release readiness.
- Built and maintained full-stack web applications using React.js, Node.js, Express.js, and MongoDB.
- Designed and implemented RESTful APIs for authentication, authorization, business logic, and database operations.
- Integrated Python-based services using Django and Flask and worked with Git-based workflows to support reliable development, testing, and release quality.

### SELECTED APPLIED AI HIGHLIGHTS

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- Built Python scripts and API integrations for prompt-based content generation, response processing, and application workflow automation.
- Evaluated model and prompt variations using task-specific metrics, qualitative review, and error analysis to improve output quality.
- Supported assistant-style and multi-step AI workflows that combined user inputs, business rules, and backend services for usable outputs.

### EDUCATION

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#### M.Tech - Artificial Intelligence and Machine Learning, BITS Pilani | WILP | Pursuing

Relevant Coursework: Statistical Methods, Machine Learning, Deep Learning, NLP, Applied AI Systems

Bachelor's Degree in Engineering (Computer Science / Related Discipline)