Shubh Gupta

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EDUCATION

VIT Bhopal University   Sehore, MP
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.81/10.0   *Sep 2022 - May 2026*

EXPERIENCE

Data Analyst Intern   Sep 2024 - Dec 2024
Preprod Corp   *Bengaluru, India*
- Designed scalable computer vision models leveraging RCNN and PyTorch, deploying them via Streamlit for a seamless and optimized user interface experience.
- Built NLP workflows with NLTK tokenization and text processing, reducing data preprocessing time by 30%
- Enhanced Agile project delivery by contributing to Scrum ceremonies, leading to a 20% faster feature delivery.

PROJECTS

Smart Document Analysis System | *AWS, Python, Textract, Comprehend, Lambda, S3*   May 2025 - Jun 2025
- Built end-to-end document processing pipeline using AWS Textract for text extraction from PDFs and images with 92% accuracy.
- Deployed serverless architecture using AWS Lambda and API Gateway, while maintaining 99.9% uptime.
- Implemented S3-based document storage and retrieval system with secure access controls.

Accurate | *Python, JavaScript, HTML5, CSS, MySQL, Docker*   Aug 2024 - Oct 2024
- Developed AutoML platform for end-to-end automation of data preprocessing, model training and evaluation.
- Implemented scalable data pipelines supporting 10+ ML algorithms with automated hyperparameter tuning.
- Enhanced user interface for intuitive model management, achieving 40% improvement in user workflow efficiency.

Energy Insight | *Machine Learning, JavaScript, PHP, Gemini API, Git*   Aug 2023 - Oct 2023
- Implemented LGBM Regressor for predicting appliance energy loads of household.
- Integrated Gemini LLM API for generating architectural improvement suggestions using prompt engineering.
- Optimized predictive analytics workflows reducing energy efficiency analysis time by 45% through automated model deployment.

ACHIEVEMENTS

- Winner of Buildathon Hackathon 2024 among 40+ finalist teams; awarded internship at Preprod Corp for innovative AI solution.
- Ranked in top 50 teams out of 1000+ participants in GeeksforGeeks and Vultr national hackathon demonstrating advanced technical expertise.

CERTIFICATIONS

- **AWS Certified AI Practitioner** (AWS) – June 2025
- **Applied Machine Learning in Python** (Coursera) – Dec 2023

RESEARCH AND PUBLICATIONS

S. Gupta, D. Thakur, A. Rastogi, R. Mishra, S. Balabantaray, and M. Bikhani, "Exploring EEG characteristics and machine learning classifiers for accurate detection of eye-blink mistakes," in *Explainable AI (XAI) for Sustainable Development.* Chapman and Hall/CRC, 2024, pp. 89–107.

TECHNICAL SKILLS

- **Programming Languages**: Python, C/C++, SQL, Java
- **AI/ML Libraries**: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers, LangChain, Pandas, NumPy
- **LLM and AI Technologies**: Large Language Models, Tokenization, Prompt Engineering, Fine-tuning
- **AWS Cloud Services**: EC2, Lambda, S3, SageMaker, Textract, Comprehend, API Gateway, CloudWatch
- **Core Concepts**: Data Structures, Algorithms, Natural Language Processing, Computer Vision