

Mohammed Siddiq

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PROFESSIONAL SUMMARY

Technology professional with a B.Tech in AI/ML and hands-on experience supporting enterprise-grade systems for a US-based client. Core strengths span Python automation, SQL-based reporting, system integration, and compliance documentation — built through daily operational work, not just coursework. Strong foundation in machine learning, NLP, and MLOps tooling, with a track record of shipping working solutions independently. Seeking to grow in an environment where technology directly serves a meaningful mission.

EDUCATION

B.Tech – Artificial Intelligence and Machine Learning | 2020 – 2024

Siddhartha Institute of Technology and Science, JNTUH

- **Relevant Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Data Structures & Algorithms, Database Management Systems, Computer Networks

EXPERIENCE

Systems & Technical Operations Engineer | Aug 2025 – Present

Tech Mahindra | US-based Enterprise Client Engagement

- **Application Support & Incident Management:** Handle day-to-day support for networked enterprise systems — diagnosing production failures, isolating root causes, and implementing fixes while minimising downtime. Manage full incident lifecycle from triage to resolution documentation.
- **SQL & Data Integrity:** Use SQL to query operational datasets, generate performance reports, and support data integrity checks when discrepancies are flagged across integrated system components.
- **Integration Validation:** Validate end-to-end communication across networked components — verifying event-triggered workflows fire correctly and tracing failures when they don't. Work closely mirrors integration testing in software infrastructure.
- **Compliance Documentation:** Maintain audit-ready documentation covering configurations, change logs, and resolution records aligned with client data security and compliance requirements.
- **GitHub Collaboration:** Manage version-controlled operational documentation and config files via GitHub — feature branches for isolated testing, PRs for team review before rollout.

Machine Learning Intern | Feb 2024 – May 2024

Ignitus | Remote

- Implemented supervised learning algorithms (Logistic Regression, Decision Trees, Naive Bayes) and NLP pipelines (TF-IDF, tokenization, text classification) to add intelligent features to a production LMS, contributing to a 30% improvement in user engagement.
- Integrated Hugging Face transformer models for content personalisation; collaborated via GitHub across a fully remote team — managing feature branches, raising PRs, and participating in peer code reviews throughout the project lifecycle.

Web Developer (Freelance) | Jan 2024 – Present

Excel Placement Services

- Built and deployed a full-stack responsive website end-to-end — requirements gathering, UI development, hosting, and DNS setup — resulting in a 40% increase in client acquisition inquiries.
- Translated non-technical stakeholder requirements into functional specifications, delivering iteratively based on feedback across the engagement lifecycle.

TECHNICAL SKILLS

Languages & Scripting: Python, SQL

AI / ML: Supervised & Unsupervised Learning, NLP, Deep Learning, Generative AI, LLMs, Prompt Engineering, Attention Mechanisms, Transfer Learning

Libraries & Frameworks: Scikit-Learn, TensorFlow, Keras, Transformers (Hugging Face), NLTK, Pandas, NumPy, Matplotlib, Flask

MLOps & DevOps: MLflow, DVC, Docker, GitHub Actions, CI/CD pipelines

Tools & Platforms: Git/GitHub, Hugging Face Hub, Salesforce, VS Code

PROJECTS

Natural Language Question Answering System

- Built a Flask-based application enabling users to query PDF documents using transformer-based NLP models. Designed the REST API layer, managed backend integration, and documented the full system — demonstrating end-to-end ownership from model selection to deployment.
- **Tech Stack:** Python, Flask, Hugging Face Transformers, REST API, Git

House Price Prediction System

- Developed an end-to-end ML pipeline covering data ingestion, feature engineering, model training (Linear Regression, Random Forest), hyperparameter tuning, and a web interface for real-time predictions — focused on interpretable output for non-technical users.
 - **Tech Stack:** Python, Scikit-Learn, Pandas, Flask, Git
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CERTIFICATIONS

- Machine Learning Training – Internshala
 - Deep Learning with TensorFlow – IBM
 - Machine Learning with Python – freeCodeCamp
 - Responsive Web Design – freeCodeCamp
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ACHIEVEMENTS

- 850+ GitHub contributions across open-source projects — consistent, documented engineering habit.
- Published a VS Code theme with 50+ downloads — shipped a real product end-to-end independently.
- Personal portfolio website built from scratch — 50% measurable increase in professional outreach.