Yashasvi Shukla

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SUMMARY

Full-stack engineer building scalable systems and production-ready AI/ML platforms, with hands-on experience in distributed backend architectures, applied NLP, and MLOps. Experienced in containerized services, ML pipelines, and model deployment workflows, with research exposure in LLM systems and retrieval-augmented generation.

EDUCATION

KIET Group of Institutions 2024 – 2026
Master of Technology in Computer Science and Engineering *Delhi-NCR, Ghaziabad*

RKGIT, Ghaziabad 2019 – 2023
Bachelor of Technology in Computer Science and Engineering *Delhi-NCR, Ghaziabad*

PROJECTS

CodeForge – Distributed Coding Platform | *React, Node.js, Express, MongoDB, Docker* | Live | GitHub

- Designed and built a distributed coding platform with authentication, problem management, and asynchronous code submission evaluation
- Implemented secure, containerized code execution using Docker with language-agnostic evaluation via Judge0 integration
- Developed judging workflows including compilation, runtime execution, verdict mapping, and failure handling
- Architected backend services for scalable judging, test case validation, and submission lifecycle management

TalentForge – Resume Intelligence Platform | *Python, FastAPI, NLP, Scikit-learn* | Live | GitHub

- Built an AI-driven resume analysis system leveraging NLP techniques to match candidates with job descriptions
- Designed feature extraction pipelines for skills, experience, semantic similarity and ranking
- Implemented ATS-style ranking and keyword optimization logic exposed via RESTful ML inference APIs

ModelForge – AutoML & MLOps Platform | *Python, MLflow, Docker, AWS, FastAPI* | GitHub

- Developed a production-oriented MLOps platform for training, tracking, and deploying machine learning models
- Integrated MLflow for experiment tracking, model versioning, and artifact management across training runs
- Designed automated pipelines supporting multiple ML algorithms and hyperparameter configurations
- Containerized model serving APIs and deployed inference services on AWS infrastructure

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Backend Systems: FastAPI, Node.js, Express, RESTful APIs, JWT-based Authentication
MLOps & Observability: MLflow, Model Versioning, Experiment Tracking, Docker, Prometheus
Databases: PostgreSQL, MySQL, MongoDB

ACHIEVEMENTS & PROBLEM SOLVING

- Solved 100+ Data Structures and Algorithms problems on LeetCode and practiced consistently on Codeforces, focusing on optimized solutions and complexity analysis

- Authored research papers on *Reinforcement Learning for Memory Management in Language Model Agents* and *Retrieval-Augmented Generation Systems: Architectures, Techniques, and Empirical Analysis*

- Applied machine learning across multiple real-world datasets, gaining hands-on experience in model selection, evaluation, and deployment-ready pipelines