AMAN KUMAR

Machine Learning Engineer — Backend Systems

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience building scalable backend systems and integrating machine learning features into production applications. Hands-on experience in deploying Python-based ML services, designing REST APIs, and managing end-to-end document and image processing workflows. Strong backend foundation with growing expertise in applied machine learning.

TECHNICAL SKILLS

- **Machine Learning:** Model inference, basic NLP workflows, image processing, Scikit-learn, PyTorch (fundamentals)
- **Backend & Systems:** REST API design, Flask, FastAPI, Laravel, system integration
- **Programming:** Python, PHP, SQL, JavaScript
- **Tools:** Docker, Git, Linux, Postman

PROFESSIONAL EXPERIENCE

Software Engineer   Jul 2024 – Present
ISKCON Bangalore   *Bangalore, India*

- Developed and maintained backend services supporting **50k+ users**, focusing on reliability and data consistency.
- Implemented strong request validation and structured data handling, supporting downstream analytics and ML usage.
- Optimized MySQL queries and indexing, reducing API response times by **30%**.
- Designed modular services enabling independent scaling of compute-heavy tasks.

Software Engineer   Jun 2023 – Jun 2024
FixingDots   *Raipur, India*

- Built FixHR, an internal HR management system, automating attendance, reporting, and employee records.
- Reduced manual administrative work by improving data workflows and report generation.
- Participated in full product lifecycle including development, deployment, and post-release support.

PROJECTS

CraftMyDoc — Document Automation Platform   *Python, Flask, Laravel*

- Built a document automation platform providing resume creation, file conversion, and image processing features.
- Developed Python-based ML services using Flask for image background removal and enhancement, exposed through REST APIs.
- Integrated ML services with a Laravel backend for request orchestration, authentication, and secure file handling.
- Designed end-to-end workflows for file upload, processing, and download with robust error handling.
- Focused on production readiness, including input validation and API performance optimization.

Basil Woods School ERP   *Laravel, MySQL*

- Developed a school management system with a focus on data integrity, transactional consistency, and reporting.

EDUCATION

Chhattisgarh Swami Vivekanand Technical University   *Bhilai, India*
Bachelor of Technology in Computer Science and Engineering   *2019 – 2023*