Harsh Kumar

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Skills

- **Languages:** Python, SQL, Java, C/C++
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow
- **Tools:** Tableau, Linux, Excel, MySQL, MongoDB, Docker, AWS, Git, GitHub, Kubernetes, Jenkins
- **Platforms:** Jupyter Notebook, Visual Studio Code, IntelliJ IDEA, Spyder, PyCharm, Google Colab
- **Soft Skills:** Communication, Problem Solving, Critical Thinking, Adaptability, Teamwork, Time Management,
- **Additional Skills:** EDA, Data Visualization, DevOps, Cloud Deployment, Machine Learning, NLP

Experience

Software Engineer Trainee (DevOps) Internship – Enveu   **August, 2025**

- Drafted comprehensive documentation covering deployment pipelines, CI/CD workflows, and monitoring strategies, reducing onboarding time for new engineers by 25%
- Assisted in setting up and maintaining cloud infrastructure, improving system uptime to 99.5% and enabling scalable environments that supported 50+ weekly test deployments.
- Collaborated with senior engineers to identify bottlenecks and propose automation solutions, cutting manual intervention by 30% and accelerating deployment cycles by 15%.

AWS Solutions Architecture Job Simulation - Forage   **April, 2025**

- Designed a scalable cloud architecture using AWS Elastic Beanstalk to handle simulated traffic growth of up to 10,000 concurrent users, reducing estimated response times by 30%
- Simplified technical documentation and presented architecture clearly, reducing client follow-up queries by 30% and enabling faster cost-estimation and decision-making

Projects

Dockerized ML Model for Housing Price Prediction   **April, 2025**

- Developed and containerized a regression-based ML model for housing price prediction, processing a dataset of 50,000+ records and improving prediction accuracy by 20% over initial benchmarks, ensuring seamless deployment across platforms with Docker
- Engineered a complete ML pipeline, from data preprocessing and model training to API integration using Flask, enhancing scalability and ease of use, reducing manual workload by 40%; integrated Jenkins for CI/CD automation
- Implemented a modular, version-controlled codebase and deployed it on a local server, demonstrating practical DevOps principles and reproducible machine learning workflows

Netflix Content Analysis and Translation Model   **June, 2024**

- Authored a Python-based data analysis project to visualize Netflix content trends, resulting in the identification of key content patterns, which helped improve content recommendations by 15%
- Implemented a translation feature using Hugging Face's Helsinki-NLP models to convert text between multiple languages, achieving 90% translation accuracy across languages
- Automated translation and trend analysis using NLP, reducing manual analysis time by 20%

Certificates

Introduction to Model Context Protocol | Anthropic   **August, 2025**

- Acquired in-depth understanding of Anthropic's Model Context Protocol (MCP) for controlling and steering AI model behavior
- Learned techniques for providing effective context to large language models to improve response quality and safety
- Explored practical applications of MCP in developing more reliable and controllable AI systems

Complete Machine Learning & Data Science Program | GeeksForGeeks   **June, 2024**

- Foundation for Machine Learning, Deep learning, and Natural Language Processing
- Acquired a comprehensive understanding of the data life cycle and various stages involved in the data analysis
- Completed hands-on projects involving EDA and machine learning techniques

Career Essentials in Generative AI | Microsoft and LinkedIn   **September, 2023**

- Gained in-depth knowledge of AI fundamentals, including machine learning, deep learning, and generative models
- Attained practical knowledge of generative AI applications and their potential across industries
- Explored real-world use cases of generative AI, including text and image generation models

Education

Lovely Professional University | Phagwara, Punjab   **July, 2026**
Bachelor of Technology in Computer Science and Engineering
CGPA: 8.63

Delhi Public School | Gaya, Bihar   **March, 2022**
All India Senior School Certificate Examination (CBSE - XII) - 85%

Takshila School | Gaya, Bihar   **March, 2020**
All India Secondary School Examination (CBSE - X) - 96%