CHHAVI SINGH

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Professional Summary : Data Scientist and Machine Learning Engineer with experience in **building predictive models**, ETL pipelines, Data Structure & Algorithms and full-stack applications. Proficient in Python, **TensorFlow**, **PyTorch**, **OpenCV**, **RAG**, SQL, **LLM** and **scikit-learn**. Skilled in REST APIs, **Flask**, **Django**, and web development (HTML, CSS, JavaScript). Hands-on with cloud platforms , Docker, and **CI/CD**. Strong background in data visualization, statistics, and business intelligence.

Experience

IBM | Data Science Internship Lucknow | Oct 2024 – Dec 2024

- Performed ETL processes on large, structured and unstructured datasets for **data cleaning**, **transformation**, and **preprocessing**, enabling efficient data analysis and machine learning workflows.
- Applied machine learning algorithms, including linear regression, **logistic regression**, **classification**, **clustering**, and ensemble methods (e.g., **Random Forest**, **XGBoost**) to build accurate predictive models for business insights.
- Engineered features, created feature selection and **dimensionality reduction pipelines** (e.g., PCA), and optimized data pipelines using Python, **Pandas**, **NumPy**, and **SQL** to improve model performance, scalability, and deployment readiness.

PBEL | Generative AI Virtual Internship Lucknow | May 2025 – Aug 2025

- Developed transformer-based Generative AI workflows for **NLP automation**, including text generation, summarization, and semantic search.
- Implemented embeddings and **LangChain** pipelines to build end-to-end LLM applications with efficient prompt **orchestration**.
- Applied best practices in **prompt engineering**, model evaluation, and AI workflow optimization for scalable GenAI solutions.

Projects

Crop Yield Prediction Model
Tools: Python, Machine Learning, Random Forest, XGBoost, Pandas, Scikit-learn

- Built a machine learning–based crop yield prediction model using soil, weather, and historical data.
- Implemented Random Forest and XGBoost with feature engineering to improve prediction accuracy.

Fashion Forward – Market Trend Analysis (Myntra)
Tools & Technologies: Python, Web Scraping, NLP, Computer Vision, Embeddings, Clustering, LLMs, Data Analysis, Git

- Developed a fashion market trend analysis system using web scraping, NLP, and computer vision techniques.
- Implemented data extraction, embeddings, and clustering to identify emerging fashion trends from large-scale data.
- Used AI-based prompt generation and visualization techniques to present actionable trend insights

AI Resume & Cover Letter Generator
Tools & Technologies: Flask, OpenAI GPT, JavaScript, LLMs, REST APIs, ReportLab, HTML/CSS, Git

- Engineered an end-to-end LLM-powered platform to generate ATS-compliant resumes and cover letters.
- Implemented GPT-driven semantic content generation with REST API workflows and real-time preview.
- Enabled production-ready PDF export using ReportLab through a responsive web interface.

Certifications

- Cloud Essentials V3 (IBM)
- Python 101 for Data Science (IBM)
- Cybersecurity analyst job simulation (forage)
- IBM Cloud Essentials (IBM)
- PBEL Virtual Internship Generative AI (IBM)

Skills

- **Languages:** Python, C, HTML,CSS
- **Data Visualization:** Seaborn, Matplotlib, PowerBI
- **Databases:** PostgreSQL, MongoDB, MySql
- **Cloud & Tools:** AWS , GitHub Actions, CI/CD, Git
- **Data Science & ML:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, OpenCV, ETL pipelines, Regression, Classification, Clustering, PyTorch, NLP, Prompt Engineering, LLM

Education

- **APJ Abdul Kalam Technical University, Lucknow** | Bachelor of Technology in Computer Science - AI & ML | 2022 – 2026 |
- ST.Xavier's Senior Secondary School,Balrampur UP (CBSE) | 2021 – 2022 | 76%