Kulbhushan Nautiyal

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about

I'm a Data Scientist with a strong foundation in physics, now specializing in NLP and Large Language Models (LLMs). I work with tools like Hugging Face, LangChain, and FAISS to build scalable applications for chatbots, RAG pipelines, and document intelligence. I fine-tune transformer models and deploy them using FastAPI, Docker, and cloud platforms. With a focus on real-world impact, I combine deep technical skills with a strong academic background to deliver intelligent AI solutions.

skills

Scikit-learn, TensorFlow, Hugging Face Transformers, LangChain, Seaborn, Pandas, Numpy, Statistical Analysis Advance Mathematics PowerBI, Matplotlib, AWS, Git, Jenkins Excel, SQL, Python, Machine Learning Scripting, PyTorch

work experience

Data Scientist RSKD Group April 2023 - Present (Freelance)

1) Developed a pipeline to summarize long legal documents. Used LangChain chains for summarization and merging. Fine-tuned T5 from Hugging Face for better performance on domain-specific language.

2) Created an LLM-powered agent for internal teams to query databases and perform analysis using natural language..

3) Developed predictive models using regression analysis to support business forecasting.

Subject Matter Expert Chegg Oct 2019–Feb 2023 (Freelance)

1) Solved complex physics problems for global students.
2) Provided step-by-step solutions and explanations.
3) Assisted in developing educational content and improving learning outcomes

Research Intern Defence Research and Development Organisation (DRDO) 2018-2019

Internship with a focus on design of MEMS Accelerometer.
1) Designed and modeled MEMS Micro-Electro-Mechanical System) capacitive accelerometer to increase sensitivity and bandwidth.
2) Utilized MATLAB simulator for design, data analysis and optimization.
3) Assisted in developing innovative solutions for defense applications

education

Master of Science Physics
Indian Institute of Technology (IIT) Dhanbad
2017-2019
GPA: 9.02

Bachelor of Science Physics
University of delhi
2014-2017
GPA: 8.1

Certification

1) AI Agents Fundamentals – Hugging Face
   Issued May 2025 | Credential ID: KBNaut
2) Machine Learning – Stanford University
   Issued May 2025 | Credential ID: SLPRT5BJZKGZ
3) Unsupervised Learning, Recommenders, Reinforcement Learning – DeepLearning.AI
   Issued May 2025 | Credential ID: YGK0KL8O53MX
4) Python 101 for Data Science – IBM
   Issued May 2025 | Credential ID: 48b616c18a334014b5d23eaf1778d6c5
5) Career Essentials in Data Analyst – Microsoft
   Issued May 03, 2025 | Credential ID: fa9d407adc42e49ac7d1558672a3592fb19fbfbea1b671bb4cd286cd50677e0c
6) Getting Started with Microsoft Excel – Coursera
   Issued April 2025 | Credential ID: NYSIBYZY42ZE
7) Prepare Data for Exploration – Google
   Issued April 2025 | Credential ID: 42BC9VAAM57W