Pulkit Dhingra

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🗺 Cambridge, United Kingdom

Versatile technologist with expertise in Python, R and Java, complemented by hands-on experience in Terraform and cloud platforms (AWS, GCP, Azure). Skilled in designing and implementing scalable applications, dashboards and end-to-end pipelines, leveraging CI/CD, containerization, and automation to streamline development workflows. Proven ability to translate business requirements into robust technical solutions, collaborate effectively with cross-functional teams, and mentor peers. Enthusiastic about continuous learning, exploring emerging technologies, and fostering a collaborative, high-impact work environment.

EDUCATION

University of Bristol, Bristol, United Kingdom   Sep 2025
Msc Data Science
- Conducted comprehensive analysis of energetic particle measurements from meteorological balloon flights— performing data extraction and instrument corrections, generating altitude and latitude-dependent flux profiles, applying solar-cycle and atmospheric adjustments, and correlating results with satellite observations.
- Completed research project that includes analysis of spectroscopical result of crop plant for nutrient estimation using Machine Learning and Deep Learning based models.
- Runner-up at University of Bristol Bris-Hack hackathon for innovative coding and ML algorithms.

Dr A.P.J Abdul Kalam Technical University, Lucknow, India   Jun 2022
Bachelor of Technology Computer Science
- Maintained a high GPA of 7.9/10, demonstrating a strong understanding of the material and a dedication to academic excellence.
- Secured first place in the annual coding and machine learning competition by building an end-to-end software solution—including data ingestion pipelines and RESTful APIs—and fine-tuning ML models for peak performance.

WORK EXPERIENCE

Ford Motor Company, Data Scientist, Chennai   (1 year 8 months) Jan 2023 – Aug 2024
- Collaborated with the Supply Chain Analytics team to architect and execute highly efficient data-driven pipelines, allowing real-time monitoring and optimization of the supply chain operations.
- Conducted advanced analytics on supply chain data, uncovering trends that improved inventory management and supported pricing decisions.
- Designed and deployed machine learning models to forecast demand, resulting in a 10% reduction in overstock and stockout costs.
- Created and personalized interactive dashboards, providing essential insights for business teams, thereby aiding in strategic decision-making and leading to improved business outcomes in the supply chain.
- Implemented machine learning algorithms to forecast future demand, leading to a reduction in stockouts and overstock situations, and improving overall operational efficiency.
- Co-ordinated with cross-functional teams to translate business needs into technical requirements, ensuring the successful deployment of data science projects that aligns with company's strategic goals.

Nagarro, DevOps Engineer, Lucknow   (9 months) May 2022 – Jan 2023
- Integrated pipelines with Azure Cloud, AWS Cloud, and Google Cloud services, thereby automating application deployment and infrastructure management which led to a significant increase in team efficiency and a marked reduction in deployment errors.
- Built Infrastructure as Code (IaC) principles to create Terraform scripts, enabling automated creation and configuration of cloud infrastructure. This initiative prompted easy replication and standardization of environments, enhancing operational efficiency.
- Transformed the system architecture by designing and implementing containerization solutions with Docker and Kubernetes, leading to a 35% improvement in scalability and resource utilization.
- Implemented continuous integration and continuous delivery (CI/CD) pipelines using Jenkins and Git, drastically reducing the code integration time and improving code quality by 40%.

Shashwat Foundation, Data Science and AI Trainer - Internship   (4 months) Jan 2021 – April 2021
- Served as a mentor for students from government schools in the Responsible AI For Youth Program, an initiative by the Government of India to introduce Artificial Intelligence to students.
- Guided students in building Machine Learning and data science projects in the domains of Natural Language Processing and Computer Vision, fostering skills and interest in AI.
- Provided instruction and mentoring on basic machine learning concepts, enabling students to gain practical experience and knowledge in this field.

SKILLS

Technical Skills: Automation, data analysis, data modeling, data pipelines, database management, data architecture, data engineering, high-performance computing, cloud computing, applied machine learning, AWS cloud, Google Cloud Platform, Jenkins, CI/CD pipeline.

Programming Skills: Python, R, SQL, Git, HTML, JavaScript, Java, CSS, Rest-API, BigQuery, Terraform.

Frameworks & Tools: Torch, TensorFlow, Hugging Face, Django, Flask, pandas, numpy, StreamLit, plotly, matplotlib, Airflow, DBT, Tableau, Qlik Sense, Power BI, JIRA, Docker, Kubernetes.

CONTRIBUTIONS AND RESEARCH

@Byte-Sized-Brilliance-AI (Start-up Initiative) @GeeksForGeeks   Feb 2025 - Present
- Founder and Author @Byte-Sized-Brilliance-AI, an AI-first blog site providing articles from basic maths behind machine learning algorithms to Agent based AI systems. Contributed 30+ articles and counting. [Link]
- Technical Writer @Geeks-for-Geeks with 15+ articles, focused on topics related to Python, R, and Machine Learning. [Link]

Automated-Document-Parser – (PYPI – Open Source module)
- A document parsing module that helps in ingestion of Documents and information from other data objects to help building RAG pipeline. The module is active on PYPI can be installed using pip [Link]

Sketch to Face (Research Paper) [Link]   Nov 2022
- The paper introduces a new method leveraging Generative Adversarial Networks (GANs) for enhanced visual representation tasks.
- The method eliminates the need for specialized artists or manual sketching processes.
- Users can create freehand sketches that serve as input for the model. The GAN model generates coloured images based on the provided sketches.

Glass Identification using XG-Boost (Research Paper) [Link]   Aug 2021
- The paper presents a method for analysing the chemical composition of glass particles.
- The method enables the classification and separate analysis of glass fragments based on unique chemical composition.
- Provides valuable information to identify the source and origin of the glass fragments.

PROJECTS

Query Generation Agent [Link]   Agentic-AI, LangGraph, LLMs
- The Automated SQL Query Generation tool that uses Qwen-Coder 7B model with AI agent to interpret user requests, automatically generate and execute SQL queries, and deliver accurate results.

Hindi GPT Neo 2.7B [Link]   LoRA Fine Tuning LLM, Conversational AI
- Integrated lightweight LoRA adapters into GPT-Neo 2.7B fine-tuning pipeline on Wikipedia-sourced Hindi language data, creating an efficient LLM for context aware Hindi conversation.