Pulkit Dhingra

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Bristol, United Kingdom

As a Programmer, I have a diverse range of interests, including software development and machine learning. I possess expertise in multiple programming languages and tools. I have worked on various complex projects, utilizing advanced technologies and exploring unique approaches to problem-solving. A team player with a positive attitude, I'm always eager to learn and contribute towards maintaining a collaborative work environment.

EDUCATION

University of Bristol, Bristol, United Kingdom Sep 2025
Msc Data Science

- Successfully implemented a campus-wide recycling program and organized a series of fundraising events raising over $10,000 for local charities.
- Completed various academic projects including a comprehensive market analysis for a local startup, contributing to their subsequent 15% increase in quarterly sales.

Dr A.P.J Abdul Kalam Technical University, Lucknow, India Jun 2022
Bachelor of Technology Computer Science

- Consistently attended all scheduled classes and actively participated in group discussions and projects, demonstrating a commitment to learning and academic success.
- Maintained a high GPA of 7.9/10, demonstrating a strong understanding of the material and a dedication to academic excellence.

WORK EXPERIENCE

Ford Motor Company, *Data Scientist*, Chennai Jan 2023 – Aug 2024

- Collaborated with the Supply Chain Analytics team to architect and execute highly efficient data-driven pipelines, enabling real-time monitoring and optimization of the supply chain operations.
- Enhanced the performance of existing supply chain management products by empowering them with advanced Large Language models, contributing to increased accuracy and efficiency.
- Leveraged cloud infrastructure to streamline the delivery of data engineering pipelines integrated with machine learning models, which significantly reduced delivery time and improved scalability.
- 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.
- Worked closely 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 May 2022 – Jan 2023

- Successfully 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.
- Utilized 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* 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 their 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: PowerPoint, Tableau, Power BI, Qlik, MongoDB, AWS (Amazon Web Services), Microsoft Azure, Google Cloud Platform, Microsoft Teams, Microsoft Excel

Programming Skills: C++, HTML/CSS, Java, Python, R, SQL

Soft Skills:
Programming Languages, Databases, Cloud Computing, DevOps, Artificial Intelligence, Data Science, Data Engineering, Project Management, Data-Driven Insights, Agile Methodology

RESEARCH PAPERS AND ARTICLE CONTRIBUTIONS

Sketch to Face [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 [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 multiple glass fragments based on their unique chemical composition.
- It provides valuable information to identify the source and origin of the glass fragments.

Technical Writer @GeeksForGeeks [Link]

- Contributor on Geeks-for-Geeks with 15+ articles.
- Contributions focused on topics related to Python, R, and Machine Learning.

PROJECTS

Video Summarization [Link] **LLMs, RAG Pipeline, Langchains**

- Developed a video summarization tool using RAG pipelines and the Google Gemini Large Language Model to process YouTube video URLs and generate concise, elaborative summaries.

Space Probe Trajectory Optimization [Link] **Simulation, Data wrangling, LSTM**

- Developed a Python-based simulation for optimizing satellite trajectories with a focus on fuel efficiency, including use cases such as Minimum Fuel Orbit Transfer, Interplanetary Trajectory Optimization.

Brain Tumour Classification [Link] **CNNs, Transfer learning, TensorFlow**

- Implemented a convolutional neural network (CNN) in Keras with TensorFlow backend to classify brain tumour MRI images into five categories.