ARPIT SINGHAL

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SUMMARY

Data science professional with a broad skill set in developing and deploying advanced tech solutions. My role includes turning complex data into actionable insights and creating intelligent systems. I bring innovative projects from concept to reality, ensuring they operate smoothly on cloud platforms. I'm always curious to explore new ideas and not afraid to ask questions.

WORK EXPERIENCE

AI Engineer, Alluvium IOT Solutions, Ahmedabad   *Sep 2023 - Present*

- Created a web app to analyze worker efficiency in a factory by tracking their hand movements using YOLO v8 object detection algorithm with more than 95% accuracy.
- Created a conversational agent using LLM, LangChain, Vector Database and OCR techniques.
- Deployed a mobile application on AWS EC2 with CICD setup using GitHub actions and docker hub. making deployments almost 5 times faster.
- Devised an algorithm to count round objects like pipes in an image with 92% current accuracy.

Professional Development   *Dec 2022 - Aug 2023*

- Thorough exploration of mathematical concepts in Linear Algebra, Statistics and Calculus to better understand Machine Learning Algorithms and Neural Networks.
- Did a series of end-to-end projects in Computer Vision, NLP and Generative AI.
- Made community contributions on GitHub, Kaggle, Stack Overflow and other platforms.
- Invested significant time reading books and taking online courses on Data Science.

Data Engineer, Deloitte, Bangalore   *Aug 2021 - Nov 2022*

- Developed data transformation and processing logics using Azure Databricks and Spark SQL, Improving both time and memory efficiency.
- Automating ETL pipelines using Azure Data Factory, ensuring seamless integration between data sources, processing stages, and visualization tools.
- Spearheaded weekly client meetings and collaborated closely with data analysts to continuously adapt and improve data transformation logic in response to evolving requirements.
- Conducted comprehensive knowledge transfer sessions, empowering team members with critical technical insights and best practices.

EDUCATION

Bachelor of Technology in Computer Science   *July 2017 - August 2021*
Dr. APJ Abdul Kalam Technical University

SKILLS

- Hard Skills: Deep Learning, Generative AI, Backend Development, DevOps, Data Engineering
- Languages: Python, SQL, Shell, JavaScript
- Platforms: AWS, Git, Docker, Azure
- Frameworks: fastAPI, OpenCV, Langchain, Spark, scikit-learn, Tensorflow, React JS
- Tools: VS Code, Jupyter, Power BI, MS Excel
- Databases: MySQL, MongoDB, ChromaDB