

# ABHISHEK PANDEY

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## Education

### LOYALIST COLLEGE

*Ontario College Graduate Certificate in AI and Data Science*

Sep 2023 – Apr 2025

*Scarborough, ON*

### VEL TECH RANGARAJAN DR SAGUNTHALA R&D COLLEGE

*Bachelor in Technology, Computer Science and Engineering*

Sep 2017 – July 2021

*Chennai, IN*

## Experience

### Dimensionless Technologies

Jan 2022 – Sept 2023

*Full Stack Generative AI Engineer — Research & Development Unit*

*Remote*

- Automated data reconciliation by designing & deploying the reconciliation feature in **AUSHADHAI**, leveraging advanced algorithms to align and resolve discrepancies across pharmacy systems, reducing reconciliation time by 40%.
- Developed scalable backend APIs using Django and integrated them with Azure services, implementing optimized query handling and cloud solutions to improve system performance and data processing efficiency by 35%.
- Led the automation of document processing and image recognition tasks in **PROPELPRO**, integrating Retrieval-Augmented Generation (RAG) with AI-driven solutions to increase processing efficiency by 40% and contribute to a 20% revenue growth through enhanced client deliverables.
- Designed pipelines for Q&A and summarization using OpenAI APIs & Vector databases (Pinecone), streamlining large document analysis workflows to boost user productivity by 30% while ensuring scalability for advanced data solutions.

### Ameex Technologies PVT LTD

Feb 2021 – Nov 2021

*Associate Software Engineer — Research & Development Unit*

*Chennai, IN*

- Developed and tested RESTful APIs to optimize backend processes, improve data management, and ensure seamless integration with client applications for enhanced performance.
- Designed and implemented user-centric interfaces while conducting thorough testing to deliver intuitive UI/UX, improving user satisfaction and application reliability.
- Collaborated with cross-functional teams to debug and optimize application workflows, reducing system errors and ensuring on-time project delivery.

## Projects

### ResearchIQ | *Django, Streamlit, Chromadb, Groq, Tensorflow, Docker, Adobe PDF Service, Hashlib, NLP*

- Built an advanced research paper analysis tool that allows users to upload PDFs of any length, generating detailed section-wise summaries and enabling Q&A functionality using Llama-70B embeddings.
- Leveraged Adobe PDF services and Open-Source Groq APIs to perform ETL on PDF content into CSV format, achieving a 50% improvement in summarization and Q&A efficiency, and delivering in-depth document insights.

### Text-To-SQL (TTSQL) | *Python, Gemini, Streamlit, SQLite, Pandas*

- Developed a Text-to-SQL app using Gemini Pro, enabling users to generate SQL queries from natural language input, thereby improving database accessibility and user productivity.
- Created a Text-to-SQL app to facilitate self-service analytics and simplify database accessibility for GTM teams.
- Built functionality to upload DB/SQL files, scrape schema details, and use Gemini to generate and execute SQL commands, eliminating the need for SQL software and simplifying data retrieval.

## Technical Skills

**Full Stack Development:** HTML, CSS, React.js, Flask, Django, Node.js, JavaScript, Java, C, Go

**ML Ops/DevOps:** AWS, Azure, GCP, Docker, GitHub, Jenkins, Kubernetes

**Data Engineering:** Python, SQL, Apache Spark, Hadoop, MongoDB, Cassandra, Tableau, Redis

**AI/ML:** PyTorch, TensorFlow, Scikit-learn, Keras, AWS Sagemaker, Azure Cognitive Services, Fine-Tuning LLM Models

## Achievements

**D2C Chief Igniter - Unstop:** Streamlined the approval process for campus events, competitions, and workshops, accelerating event execution and enhancing campus engagement.

**Winner - First Place at Prakalpa Z-20 Online Project Contest:** Recognized for the AI-driven project "*DESTROY COVID-19*", organized by Vel Tech in collaboration with the Computer Society of India (CSI).