

Kshitij Dalvi

+91 9029895438 | kshitijdalvi22@gmail.com
github.com/kshitijdalvi4 | linkedin.com/in/kshitij-dalvi-594b90226

EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh
B.Tech in Computer Science and Engineering (Specialization in AI and Machine Learning)
CGPA: 8.69 / 10.0

September 2022 - May 2026

TECHNICAL SKILLS

Languages: Python, C++, Java

Technologies/Tools: Data Engineering, Deep Learning, Machine Learning

ML/DL: OpenCV, PyTorch, Tensorflow, Roboflow, LangChain, Chroma DB, LLM

Big Data: AWS Glue, AWS Kinesis, AWS Athena

Core Skills: Object Oriented Programming, Databases, Discrete Math, Data Structures, Operating Systems, Computer Networks, Data Visualization, Artificial Neural Networks, Reinforcement Learning, Fuzzy Logic

Developer Tools: Git, Docker, Visual Studio Code, GitHub.

PROJECTS

Smart Resume Screener

July 2025

Tech Stack: LangChain, ChromaDB, Gemini API(LLM),

- Structured a RAG based platform to screen Resume, using Gemini API for improved hiring decision making.
- Designed for chatting with Resume, achieving a speedup and automation in resume reviewing.
- Reduced overhead by introducing "Metrics" for candidate resume, resulting in finding quick relevancy with job description.

Optimising LeetCode Question Solving

July 2025

Tech Stack: Python, PyTorch, Transformers (BERT), NLP, Pandas

- Engineered an NLP platform to generate Conceptual MCQs, leveraging BERT models for improved analytics.
- Designed a pipeline with flexible batch size, achieving a 3.2x speedup than CPU-baseline
- Reduced overhead with memory-efficient tokenization, resulting in quick identification of conceptual gaps.

ETL Pipeline for NLP-Powered Customer Feedback

June 2025

Tech Stack: AWS Glue, AWS Athena, Pyspark, Python, PyTorch, Transformers (BERT), NLP, SQL, AWS

- Architected an ETL pipeline to process review feedback for customer support ticket generation
- ETL: Extracted reviews from Multiple sources in AWS S3, for extracting real time data in AWS Kinesis.
- Handled missing values,data cleaning in Data Catalog ,AWS Crawler using transform scripts and AWS Athena for database analysis, drawing insights from 30,000+ reviews.
- NLP Model Implementation: Fine-tuned a BERT base-uncased model, performing low-latency sentiment-intent analysis on feedback.

Computer Vision: Knee Osteoarthritis Detector

December 2024

Tech Stack: Python, OpenCV, Roboflow, YOLO, Medical Image Processing

- Developed an object detection model trained with YOLOv8 to classify Knee Osteoarthritis into 5 distinct grades, achieving precision of 59.1% and recall of 85.0%
- Executed dataset management with Roboflow: Ingested 1.4k+ pre-annotated images using OpenCV techniques, expanding mAP@50 to 72.7%

CERTIFICATIONS

- Ethnus AWS Certified Cloud Practitioner - Foundational knowledge of AWS Services and architecture
- Applied Machine Learning in Python (Coursera) - Mastered scikit-learn for classification, regression, clustering, and evaluation

ACHIEVEMENTS

- Smart India Hackathon 2024 Finalist (Internal Round) - Established data-flow model and schema of gamified learning application, ranking Top 10 in team participants
- Mentor, AI Club - Conducted live workshops and project building for junior researchers, focusing on CNN and Computer Vision applications.

EXTRACURRICULAR ACTIVITIES

Tech Team Lead, AI Club

June 2024 - March 2025

- Mentored a team of 10+ developers and researchers, spearheading documentation of 4+ DL research papers and 7+ practical AI projects.

General Secretary, Freelancing Club

January 2024 - May 2025

- Scaled club participation to 600+ members, facilitating collaboration between team members.