

# Kshitij Dalvi

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## 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.