Tejal Anavekar

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Education

University of Southern California — Los Angeles, CA
Master of Science in Computer Science — *Aug 2024 – May 2026*
- Relevant skills: Analysis of Algorithm, Database management, Applied Natural Language Processing

Fr.C.Rodrigues Institute of Technology — Mumbai, India
Bachelor of Engineering in Information Technology — *Jul 2020 – Jun 2024*
- Relevant skills: Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence, Data Science, Data Mining, Big Data

Technical Skills

Programming Languages: Python, C, C#, HTML, CSS, Javascript
Framework: ReactJs, NodeJs, ExpressJS, TensorFlow, Bootstrap
Libraries: PyTorch, Scikit-learn, Keras, OpenCV, Pandas, NumPy, Seaborn, Matplotlib
Databases: SQL, Mongo DB, PostgreSQL, Firebase
Tools/ Technologies: AWS (EC2, S3), Power BI, GCP

Experience

Software Developer — Sept 2024 – Present
Institute for Creative Technologies — *Los Angeles, CA*
- Developed complex **SQL** queries and automated end-to-end **ETL** workflows, including data extraction, cleansing, transformation, and loading into finance data pipelines, streamlining the reporting processes and improved efficiency by 40%
- Implemented and Executed **C#** automation solution that replaced manual Excel workflows, reducing report generation time by 60% and deploying automation solution to a live environment
- Constructed **8** interactive dashboards in Power BI to monitor key financial KPIs, integrating real-time backend data streams

Data Engineer Intern — June 2025 – Aug 2025
Meta — *Burlingame, CA*
- Engineered **4** end-to-end scalable data pipelines on the **Reality Labs Privacy and Platform Foundations team**, enabling real-time analytics and AI readiness dashboards for billions of rows of user data
- Automated pipeline generation and data validation for AI readiness dashboards using **Python** and Meta internal tools guaranteeing scalable and dependable data workflows
- Optimized AI readiness metric computation logic, which was adopted by **3+** cross-functional teams , enhancing reporting transparency and driving more consistent performance tracking

AI Engineer — Jun 2022 – Apr 2023
Tata Institute of Fundamental Research — *Mumbai, India*
- Applied advanced image segmentation and **SIFT-based feature extraction**, boosting classification precision by **25%** and enabling more precise data interpretation
- Trained and deployed **Convolutional Neural Networks** (ResNet, VGG variants) to automate image classification tasks, improving accuracy and cutting processing time by 30%
- Designed modular **2** preprocessing pipelines to standardize image resolution and brightness for robust ML training across diverse datasets and imaging conditions

Projects | Publications

Query Bot | *NLP, BERT, LSTM, Pytorch* — Jan 2025 – Apr 2025
- Led the development of a custom seq2seq model combining **BERT encoders and LSTM decoders** with schema-aware attention for translating natural language questions to SQL queries. Achieved 91.8% execution accuracy and 82.2% exact match on Spider dataset

GeoForecast - Weather App | *MERN Stack, Flask, Swift, GCP* — Aug 2024 – Dec 2024
- Built and deployed a cross-platform weather app with modular frontend–backend architecture (**React.js, Node.js, MongoDB**), hosted on **Google Cloud**. Integrated Google and Tomorrow.io APIs for geolocation ,weather prediction and daily forecasts, achieving 93% location accuracy and increasing daily retention by 35%

Smart Surveillance System for Intrusion Detection | *SSD, YOLO,Open CV, Tensorflow* — Jul 2023 – Apr 2024
- Devised and Implemented AI-powered smart surveillance system utilizing **SSD and YOLO** algorithms for real-time leopard detection across 500 meters, achieving 92% detection accuracy with false positive reduction of 30% | Research Paper

Plagiarism Detection System | *Open CV, Django* — Jan 2023 – Apr 2023
- Built a web-based **NLP tool** to detect content similarity using **TF-IDF** and **Cosine Similarity** with text preprocessing such as stemming, lemmatization increasing plagiarism detection accuracy by 40%