

# Ekta Patel

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🌐 <https://ekta-patel-16.netlify.app/#home>

## EDUCATION

### Master of science, Computer Science | GPA: 3.7/4.0

University of Texas at Arlington

08/2023 – 05/2025  
Dallas, United States

### Bachelor of Engineering

LDRP Institute of Technology and Research

08/2019 – 06/2023  
Gandhinagar, India

## PROFESSIONAL EXPERIENCE

### Python Software Development Intern

Resowl Solutions LLP

01/2023 – 06/2023  
Ahmedabad, India

- Developed a Python ETL pipeline using DataBricks, extracting JSON data, transforming it into CSV, and seamlessly integrating it into a SQL database.
- Integrated diverse retail data into a single dashboard, transforming raw information into actionable insights.

### Junior developer Intern

Axisray

07/2022 – 12/2022  
Ahmedabad, India

- Developed a real-time Product Management dashboard using Flask and MySQL, providing a visual interface for tracking selected product metrics.

### Developer Intern

Institute of Plasma Research

01/2022 – 06/2022  
Gandhinagar, India

- Enhanced a national healthcare application for government employees, improving overall efficiency by 32%.
- Implemented Flask framework to optimize application performance and user experience.

## SKILLS

- Programming Languages: Python, Java, JavaScript | Frameworks & Libraries: Spring Boot, Flask, Hadoop, TensorFlow, scikit-learn
- Database: MySQL, PostgreSQL, AWS RDS | Cloud & DevOps: AWS (EC2, S3, RDS, EBS), CircleCI, Docker | Web Technologies: Node.js, HTML, CSS, Bootstrap | Authentication: Microsoft Entra ID, JWT | Version Control: Git, GitHub | Machine Learning & AI: OpenAI API, TensorFlow, scikit-learn, NLP, Prompt Engineering
- Data Visualization: Matplotlib, Plotly, Streamlit | Project Management: Jira, Agile/Scrum | Tools/Editors: Excel, SDSC Expanse, Jupyter Notebook, PyCharm, PowerBI, Tableau, Eclipse, VS Code, DBeaver, Postman, DataBricks, IntelliJ IDEA

## PROJECTS

### AutoCRIT – AI-Powered Code Review Bot

- Developed a GitHub App using Probot (Node.js) to automate pull request reviews, simulating human feedback with AI and static analysis tools.
- Built a Python microservice with FastAPI to run PyLint and Bandit, analyzing security and code quality across repositories.
- Implemented OpenAI GPT-4 to generate AI-based code suggestions and directly comment on PRs, enhancing CI/CD workflows.
- Dockerized the entire stack (Probot bot, analyzer, MongoDB, React dashboard) and deployed using Docker Compose and AWS ECS.
- Designed a MongoDB-backed analytics dashboard with React.js and Tailwind CSS to visualize code health, review history, and PR feedback trends.
- Added JWT-based RBAC to secure access and assign viewer/admin roles in the dashboard.
- Live at <https://ekta1604.github.io/review-dashboard/#/login>

### Academiverse - Learning Management System

- Developed a comprehensive LMS using Java Spring Boot for the backend and React.js for the frontend, enhancing the educational experience for university students and professors.
- Implemented AWS services including EC2 for hosting, RDS for PostgreSQL database, and S3 for file storage, ensuring scalable and reliable system performance.
- Established a CI/CD pipeline using CircleCI, automating testing and deployment processes for an efficient development workflow.
- Integrated Microsoft Entra ID for secure user authentication, enhancing system security and user management.
- Developed an AI-powered quiz generation feature using OpenAI API, enabling automatic quiz creation from uploaded PDFs with manual editing and play options & implemented a department-specific news update system, dynamically delivering relevant updates based on user affiliation.
- Utilized Agile methodologies (Scrum) to manage the project, ensuring the timely delivery of features and continuous improvement.

### Enhomes

- Developed Enhomes, a full-stack smart application for efficient apartment community management.
- Implemented key features including user authentication, facility management, and real-time communication systems.
- Automated manual tasks, reducing administrative workload and enhancing resident communication in housing societies.
- Technologies - Node.js backend, Java Android frontend

### Cricketer Data ETL Pipeline

- Created a Python-based ETL pipeline to extract, transform, and load Indian Premier League (IPL) cricket match data from JSON files into CSV format, and seamlessly integrated the processed data into a database.
- Automated the entire process while maintaining a log of processed files, ensuring a streamlined and organized approach to data management.
- Technologies - Python, SQL

### Retail Dashboard

- A performance tool to visualize and report all essential retail KPIs in one central interface and turn this collected data into actionable insights.
- Technologies - Python, Streamlit

## CERTIFICATES

- AI For Everyone by DeepLearning.AI
- Technical Support Fundamentals by Google
- Python for Data Science by NPTEL