

IKHLAS PV

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SUMMARY

Computer Science graduate with strong software engineering experience and AI/ML proficiency. Developed full-stack applications using Python frameworks and built scalable software solutions. Demonstrated expertise in object-oriented programming, database management, and software testing principles.

PROFESSIONAL EXPERIENCE

AI Engineer Trainee, Elkitch Pvt Ltd Mysore, India **Aug 2024 - Feb 2025**

- Developed and maintained full-stack web applications using Python frameworks (Django, Flask)
- Implemented REST APIs for seamless integration between front-end and back-end systems
- Built automated testing suites that reduced bug detection time by 40%
- Collaborated with cross-functional teams using Agile methodologies for timely deliverables
- Engineered product detection system using YOLO with 94% accuracy and created integration APIs
- Designed web dashboards that increased client engagement by 40%

Data Science Intern, Dataspark Calicut, India **Sep 2023 - Oct 2023**

- Developed ETL pipelines for efficient data processing using Python
- Created RESTful APIs to integrate machine learning models with web applications
- Contributed to codebase improvements through code reviews and refactoring
- Streamlined data processing workflows, improving efficiency by 60%
- Performed unit testing and integration testing for mission-critical applications

Web Development Intern, STEM Robotics Kochi, India **May 2023 - May 2023**

- Developed ETL pipelines for efficient data processing using Python
- Created RESTful APIs to integrate machine learning models with web applications
- Contributed to codebase improvements through code reviews and refactoring
- Streamlined data processing workflows, improving efficiency by 60%
- Performed unit testing and integration testing for mission-critical applications

PROJECTS

Hospital Bystander Caller Web App **Jan 2025 - Apr 2025**

- Built a full-stack web application using Flask, with secure user authentication
- Implemented object-oriented programming principles for maintainable code structure
- Created RESTful APIs for Twilio integration and notification services
- Performed comprehensive testing including unit tests and integration tests
- Utilized Git for version control and implemented CI/CD pipelines for deployment

Real-Time Object Defect Detection and Tracking for Products **Aug 2024 - Feb 2025**

- Designed microservice architecture for scalable product monitoring system
- Created APIs for real-time data processing and integration with MQTT
- Implemented robust error handling and logging for system reliability
- Conducted thorough testing using unit and integration tests
- Deployed application using Docker containers and Kubernetes

AI Assistant for Trainee Teachers and students (ATTS) **Dec 2023 - May 2024**

- Architected modular application using MVC architecture and OOP principles
- Developed robust backend services with Python, ensuring code quality with unit tests
- Implemented error handling and logging for enhanced application reliability
- Built RESTful APIs for frontend integration and data exchange
- Utilized version control systems throughout development lifecycle

SKILLS

- Programming Languages: Python (Advanced), Java, JavaScript, SQL, C
- Web Development: HTML, CSS, Bootstrap, Flask, Django, RESTful APIs
- Database Technologies: MySQL, PostgreSQL, MongoDB
- Software Development: Object-Oriented Design, Git, SDLC, Agile/Scrum
- Testing & QA: Unit Testing, Integration Testing, Automated Testing
- DevOps Tools: Docker, Kubernetes, AWS, Azure, CI/CD Pipelines
- Additional Skills: TensorFlow, PyTorch, OpenCV, Data Analysis, Problem-Solving

EDUCATION

Bachelor of Technology in Computer science

Jun 2020- Jun 2024

- APJ Abdul Kalam Technological University
CGPA : 6.9
- Coursework: Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering, Operating Systems

CERTIFICATIONS

- IBM AI Engineering Professional Certificate
- Career Essentials in Generative AI by Microsoft and LinkedIn
- Python for Data Science by IIT Madras (NPTEL)
- IBM Python for Data Science, AI & Development
- AI Engineering Specialization by Scrimba

ADDITIONAL INFORMATION

- **Languages:** English, Malayalam , Hindi.
- **Awards/Activities:** Vice Chair, IEEE Student Branch: Led 12 campus tech events and managed team of 10 First Prize, National Hackathon (i5 2024, 75+ teams) mentored 15 student projects through IEDC program