

Mohammed Muzamil

Cloud & DevOps Enthusiast | Python Automator | AI- Augmented Coder

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Objective

Computer Science graduate with practical experience in Python-based applications, backend systems, and cloud deployments. Currently building and maintaining applications while developing skills in DevOps, automation, and cloud infrastructure.

EDUCATION

ATME College of Engineering, Mysuru

Graduated 2025

Bachelor of Engineering (B.E), Computer Science and Design

2021 – 2025 | **CGPA: 7.4**

Skills & abilities

- **Languages:** Python, Javascript, MySql
- **Backend & Web:** Front-end (HTML5, CSS3) , Flask
- **Cloud:** AWS (EC2, S3, IAM), Boto3
- **DevOps & Systems:** Linux, Bash, Docker (Basic), Git, GitHub, SSH
- **Data & Tools:** Power BI, Excel, Pandas, MySQL
- **Workflow:** Agile (Scrum, Standups, Sprints)
- **Tools:** PuTTY, MobaXterm, WinSCP, VS Code,
- **Soft Skills:** Problem-solving, communication, adaptability, and teamwork.

Work Experience

Web Developer – Central Institute of Indian Languages (CIIL), Mysuru

JUL 2025 – Present (Contract / Project Based)

- Building and maintaining web applications and language-technology tools for multilingual research projects.
- Leading backend/data-pipeline development for Bhasha Sagar (26-language learning app) and developing BharatType, a responsive typing tutor supporting 15+ Indian scripts.
- Designed and deployed an automated service monitoring and alerting system using Python, Linux cron jobs, and AWS EC2 to track uptime of web services and APIs with email notifications.
- Working with researchers to design multilingual text-processing solutions.

Intern – Web Development & AI - Central Institute of Indian Languages (CIIL), Mysuru

Feb 2025 – June 2025

- Worked on web development, and Language Technology projects.
- Contributed to tools in OCR, phonetics, and document analysis.
- Assisted in building automated systems using Tesseract, OpenCV, and Python.

Projects

Document Template Matching

- Classified medical documents using OCR and pattern detection.
- Developed an AI-driven system for automatic document classification using OCR and image processing.
- Implemented template matching (ORB) and Naive Bayes classification for accurate document categorization.
- Enhanced system accuracy with handwritten document detection using pixel variance analysis.

Key Project @ CIIL

Surya OCR – Text Extraction App

- Flask web app for extracting text from multilingual scanned documents.
- Integrated a custom OCR engine with light preprocessing to improve results on low-quality images.

IPA Comparison Tool

- Web app (Flask, MySQL) comparing phonetic similarity across 19 Indian languages.
- Designed database & algorithms for quick lookups and similarity scoring.

Bhasha Sagar

- Backend support for a 26-language learning app.
- Managing datasets (text, audio, images) in MySQL and cleaning Excel data; added small CSS tweaks for better layout.

BharatType – Indian Language Typing Tutor

- Browser-based typing tutor for 15+ Indian scripts.
- Includes practice mode, real-time accuracy/WPM tracking, and responsive on-screen keyboard.

Corpus Search Web App

- Built a high-performance search engine for large multilingual corpora initially handling 7–10 GB datasets, now optimized to support 50+ GB corpus files efficiently.
- Implemented chunk-based reading and indexing to avoid memory overload.
- Added authentication and access control so only authorized internal users can access the system

CIIL Service Monitoring & Alerting System

- Built an automated monitoring system using **Python, Linux cron jobs, and AWS EC2** to track uptime of web services and APIs.
- Implemented **email alerting and Google Sheets API integration** for dynamic configuration and operational monitoring.

Certifications

- Introduction to Programming Using Python - edX
- AI For India 2.0 - Pupilfirst
- Introduction to Basic Game Development using Scratch – Coursera

Languages

English (Fluent), Tamil (Fluent), Kannada (Fluent), Urdu (Fluent), & Hindi (Fluent)