**AKASH YADAV** Intern | Python Developer | AI/ML Enthusiast  
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 🌐 [LinkedIn](https://www.linkedin.com/in/akash-yadav-1654b422a/) | [GitHub](https://github.com/akashcodejames) | [Leetcode](https://leetcode.com/u/AkAsH_Ydv/)

### **PROFILE**

Motivated and detail-oriented B.Tech graduate in **Computer Science Engineering** from NITRA Technical Campus. Passionate about developing scalable applications using **Python, FastAPI, and AI/ML technologies**. Experienced in **Full Stack Development, Automation, and Large Language Models (LLMs)**. Eager to contribute innovative software solutions in a collaborative environment.

### **EDUCATION**

**B.Tech in Computer Science Engineering**  
 NITRA Technical Campus, 2021-2025

* Class 10 (ICSE - 2018): 90% (Children College, Azamgarh)
* Class 12 (CBSE - 2020): 79% (Vidya Vahini School, Prayagraj)

### **TECHNICAL SKILLS**

* **Programming Languages:** Python, JavaScript, C, SQL
* **Frameworks & Libraries:** FastAPI, Flask, Django
* **Web Technologies:** HTML, CSS, JavaScript
* **Databases**: PostgreSQL, MySQL
* **AI/ML Expertise:** Supervised Learning algorithms
* **Tools & Technologies:** Selenium, Web Scraping, Git, Docker, Kubernets Basics
* **Soft Skills:** Problem-solving mindset, quick learner, effective collaboration

### **PROJECTS & EXPERIENCE**

**College ERP Management System**

**Tech Stack**: Flask, Python, MySQL, Redis, Celery, Docker, NGINX, JavaScript, HTML, CSS

**Key Features and Implementation Details:**

**Security & Authentication:**

* Implemented role-based access control (RBAC) with multiple user types: Admin, HOD, Teacher, Student, Librarian
* CSRF token protection for form submissions
* Rate limiting using Flask-Limiter with Redis backend
* Secure password hashing and session management

**Email System:**

* Asynchronous email processing using Celery and Redis
* Priority-based email queue (Urgent, High, Normal, Low, Bulk)
* HTML email templates with Jinja2
* Batch processing for efficient email delivery
* Automatic cleanup of old email logs
* SMTP integration with configurable settings

**Database & ORM:**

* MySQL database with SQLAlchemy ORM
* Database connection retry mechanism
* Transaction management and error handling
* Efficient batch operations for bulk data processing

**Infrastructure:**

* Containerized deployment using Docker and docker-compose
* NGINX reverse proxy with upload module
* Redis for session storage, rate limiting, and task queue
* Celery for background task processing
* Environment-based configuration management

**Modules:**

* Library Management System with book tracking
* Timetable Generation and Management
* Student Attendance System
* Course and Subject Management
* User Profile Management

**Performance & Scalability:**

* Asynchronous operations for heavy tasks
* Redis-based caching and session management
* Batch processing for bulk operations
* Distributed task processing with Celery workers
* Connection pooling and retry mechanisms

#### **Automated Video Manager**

**Tech Stack:** Python, Selenium, Web Scraping

* Created an automation tool for managing and **recording educational videos** from online courses.
* Implemented **real-time tracking** and **file management** for efficient content organization.
* 🔗 **GitHub:** [Contacts Translate to Hindi](https://github.com/akashcodejames/Contacts-Transalte-to-Hindi-/tree/main/AndroidStudioProjects/ricksmorty)

### **Contacts Translate to Hindi (Android App)**

* **Tech Stack:** Android Studio, Java, Google Cloud Translate API
* Developed an Android app that **automatically translates contacts** from English to Hindi.
* Integrated **Google Cloud Translate API** for seamless language conversion.
* Used **file handling & VCF processing** to extract and convert contact data.
* 🔗 **GitHub:** [Contacts Translate to Hindi](https://github.com/akashcodejames/Contacts-Transalte-to-Hindi-/tree/main/AndroidStudioProjects/ricksmorty)

### **CERTIFICATIONS & TRAINING**

* **Advanced Python Bootcamp** – Udemy
* **Selenium, Scrapy, BeautifulSoup** – Udemy

### **ACHIEVEMENTS**

* Certificate for Participation in HackerRank Coding Challenge(**Coding Extravaganza**)

### **LANGUAGES**

* English (Fluent)
* Hindi (Native)

### **INTERESTS**

* AI & Large Language Models
* Web & Backend Development

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