

# ALAGUSUNDARAM N

Python Developer/ AI Developer / Full Stack Developer

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## ABOUT ME

Passionate BCA Graduate with strong expertise in Python, Machine Learning, Full-Stack Development, and AI-based applications. Experienced in developing real-time web apps, automation solutions, and data-driven software. Skilled in Flask, JavaScript, React, and SQL with practical experience gained through internships and multiple end-to-end projects. Seeking opportunities as a Junior Python Developer / AI Developer / Full-Stack Developer.

## EDUCATION

2021 - 2024 **Bachelor of Computer Applications(BCA)**

Alagappa University

2020 - 2021 **Computer Science**

St.St. Joseph  
Matriculation Hr. Sec.  
School

## CERTIFICATIONS

- IBM AI Developer Certification (AI Engineering + NLP + Model Deployment)
- Full Stack Developer with Core Python — Accord Info Matrix
- Data Science Certification — Besant Technologies

## INTERN

- Web Development Intern — GB Tech Corp Aug – Sep 2022
- Assisted in AI-driven software solutions
- Worked on frontend and backend components
- Improved knowledge of development frameworks and automation
- Participated in weekly reviews to track progress

## TECHNICAL SKILLS

- Languages: Python, JavaScript, Basic Java
- Frameworks: Flask, React.js, Django
- ML / NLP: Scikit-Learn, Pandas, NumPy, Text Processing, Classification
- Backend: REST API, JSON, OOP
- Databases: MySQL, SQLite
- Frontend: HTML5, CSS3, JavaScript
- Developer Tools: Git, GitHub, VS Code, PyCharm, Anaconda, Postman
- Others: Power BI, Excel, MS Office

## TOOLS

GIT, GITHUB, VS CODE, PYCHARM, ANACONDA, POWER BI, EXCEL, MS OFFICE, NOTE PAD++, CMD

## SOFT SKILLS

TIME MANAGEMENT, TEAM COLLABORATION, FAST LEARNER, ANALYTICAL THINKING, PROBLEM SOLVING, LEADERSHIP, COMMUNICATION

# PROJECTS

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## 1. EMOTION DETECTOR WEB APPLICATION (IBM WATSON NLP)

- Developed an AI-based web application to analyze user text and detect emotions such as joy, anger, sadness, fear, and disgust.
- Tech Stack: Python, Flask, IBM Watson NLU API, HTML/CSS

### FEATURES

- Integrated IBM Cloud NLP for emotion analytics
- Built REST API using Flask
- Implemented error handling, unit testing, and Docker deployment
- Delivered formatted JSON & HTML emotion output

## 2. FULL-STACK HOTEL MANAGEMENT SYSTEM (PYTHON + JS + REACT)

- A complete hotel management platform for room booking, staff management, billing, and admin dashboard.
- Tech Stack : Python, Flask, React, JavaScript, MySQL

### KEY FEATURES:

- User authentication & dashboard
- Room availability & booking module
- Invoice generation
- React UI for faster and modern interface
- Python backend using REST APIs

## 3. SKILL SYNCAI — CAREER ALERT SYSTEM (DATA SCIENCE)

- An AI-driven job-matching platform using NLP and ML to match resumes with job listings.
- Tech Stack: Python, ML, Flask, HTML/CSS

### HIGHLIGHTS:

- Implemented resume-job matching
- Automated email/SMS job alerts
- Tuned AI model for improved accuracy

## 4. ONLINE TUTORIAL WEBSITE (INTERNSHIP PROJECT)

- HTML, CSS, JavaScript, Python, Django, MySQL
- Built a complete e-learning platform with user login, course modules, video lessons, and admin dashboards.
- Developed backend using Django (models, views, authentication).
- Connected Django ORM to MySQL for secure data storage.
- Implemented course CRUD system and student progress tracking.
- Designed responsive UI using HTML5, CSS3 and JavaScript.

### KEY FEATURES:

- User login/signup using Django authentication
- Course listing page with details and category filters
- Video lesson pages with embedded content
- Admin dashboard for adding/editing courses
- Student progress tracking stored in MySQL
- Responsive frontend using HTML, CSS & JavaScript

## 5. FAKE NEWS DETECTION (BCA FINAL PROJECT)

- Tech Stack: Python, ML (Logistic Regression, Naive Bayes, XGBoost)

### ACHIEVEMENTS:

- Developed an ML-based fake news classifier
- Logistic Regression achieved the highest accuracy
- Built end-to-end ML pipeline with preprocessing & evaluation
- Created a simple Flask UI for testing inputs