

# AALIA WADKAR

IT engineer - Cloud Computing, CyberSecurity and AI

Dubai, United Arab Emirates,

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## PROFESSIONAL SUMMARY

Results-driven IT Engineer with a strong foundation in cloud computing, cybersecurity, and data science. Demonstrated ability to deploy scalable cloud-based solutions using AWS (EC2, S3, SageMaker), analyze network traffic with Wireshark, and develop machine learning models for intelligent decision systems. Improved system performance by 20% through backend optimizations, and reduced data processing time by 30% using efficient data preprocessing techniques. Passionate about securing digital environments and enhancing cloud reliability through automation and security-first practices.

## TECHNICAL SKILLS

Programming & Scripting: Python, SQL

Cloud Technologies: AWS (EC2, S3, SageMaker, IAM), Cloud Deployment, RESTful APIs, Serverless Architecture

Cybersecurity: Wireshark (Network Traffic Analysis), Ethical Hacking Fundamentals, Cybersecurity Basics

Data Science & ML: Scikit-Learn, TensorFlow, PyTorch, Keras, Feature Engineering, EDA

Tools & Platforms: Jupyter Notebook, Google Colab, Streamlit

Web Technologies: HTML, CSS, JavaScript, MongoDB, [Node.js](#)

## CERTIFICATIONS

Data Science Honors Degree - 2022 to 2024

Google Cybersecurity Professional Certificate – 2024

AWS cloud Practitioner - Ongoing

## PROFESSIONAL EXPERIENCE

FastFindFirm – Data Science Intern

Pune, India | Jan 2023 – Mar 2023

- Collaborated with frontend developers to enhance UI/UX, resulting in a 25% improvement in user response time.
- Supported backend development and database operations using SQL, optimizing query performance by 30%.
- Integrated APIs and deployed machine learning models, contributing to a 15% enhancement in feature scalability.

## PROJECT EXPERIENCE

### Smart Tourism for Ratnagiri (July 2023 – July 2024)

- Engineered an AI-based web platform integrating OpenAI APIs for real-time tourist assistance.
- Designed and deployed a recommendation engine to support local tourism, increasing engagement by an estimated 40%.
- Tech Stack: JavaScript, HTML, CSS, MongoDB, OpenAI API, Node.js, RESTful APIs

### Music Genre Detection (Jun 2023)

- Developed a supervised learning model using KNN and SVM to classify music genres with 87% accuracy.
- Performed signal feature extraction and dimensionality reduction to optimize model efficiency.
- Tech Stack: Python, Scikit-Learn, NumPy, Pandas, Matplotlib

### Stress Detection System (Apr 2025)

- Created a real-time prediction system using ML algorithms to analyze stress based on biometric inputs.
- Achieved 82% prediction accuracy and deployed model using Streamlit with Pickle serialization.
- Tech Stack: Python, Streamlit, Scikit-Learn, Pickle, Matplotlib

## PUBLICATIONS

ICATM 2024 & IJCRT 2024: "Smart Tourism: A Comprehensive Approach Towards Web Development"

## ACHIEVEMENTS

- Participated in Web Hackathon 2023
- Led Utopia Event Management Team – 2024

## EDUCATION

Bachelor of Engineering in Information Technology

Finolex Academy of Management and Technology

Honors in Data Science | Jul 2020 – May 2024 | GPA: 8.63/10

## LANGUAGE PROFICIENCY

English: Full Professional Proficiency

Arabic: Basic Reading & Comprehension

Hindi: Full Professional Proficiency

Marathi: Full Professional Proficiency