

RAGUL A

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PROFESSIONAL SUMMARY

Artificial Intelligence and Data Science undergraduate with a strong foundation in machine learning, deep learning, and database systems. Experienced in building end-to-end applications using Python, SQL, Django, and cloud platforms. Adept at transforming data into actionable insights and developing scalable solutions through modern cloud and web technologies.

EDUCATION

- KPR Institute of Engineering and Technology** Coimbatore, India
Bachelor of Technology – Artificial Intelligence and Data Science; CGPA: 7.5 2023-2027
Courses: Operating Systems, Data Structures, Algorithms, AI, ML, Networking, Databases

SKILLS SUMMARY

- Languages:** Python, SQL, Java
- Tools:** PostgreSQL, MySQL, SQLite
- Frameworks:** Scikit-learn, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS
- Platforms:** Web, Windows, Arduino, Raspberry Pi, AWS, GCP, IBM Cloud
- Soft Skills:** Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- Spotnack** Coimbatore, India
Cloud Computing Intern June 2024
 - AWS Cloud Development:** Designed and deployed cloud applications using AWS EC2, S3, and Lambda.
 - Serverless Architecture:** Built serverless workflows using AWS Lambda, API Gateway, and DynamoDB.
 - Microsoft Azure Infrastructure:** Configured virtual machines and monitored resources using Azure Portal.
 - Google Cloud Data Pipeline:** Developed a data pipeline using Google Cloud Storage, BigQuery, and Pub/Sub.
- Pinesphere** Coimbatore, India
Full Stack Development Intern June 2025
 - Frontend Development:** Built responsive and interactive user interfaces using HTML, CSS, JavaScript, and frameworks.
 - API Integration:** Integrated frontend components with RESTful APIs for seamless data flow.
 - Backend Development:** Designed and implemented server-side logic and database operations.
 - Deployment & Optimization:** Managed application deployment, debugging, and performance optimization.

PROJECTS

- AI Medical Report Analyzer:** Developed an AI-driven system to analyze and summarize medical reports using natural language processing and machine learning techniques. Automated extraction of key medical insights to assist in faster and more accurate report interpretation. Tech: Python, NLP, Machine Learning.
- Local Tourist Guide Mobile Application:** Built a cross-platform mobile application to help users discover local tourist attractions. Implemented location-based attraction listings, detailed views, and seamless backend API integration. Tech: React Native, JavaScript, REST APIs.
- Task Management System:** Designed and developed a full-stack task management application featuring user authentication, task creation, status tracking, and role-based access. Focused on scalable backend architecture and efficient API design. Tech: Node.js, Express.js, MongoDB.
- Personal Portfolio Website:** Designed and developed a responsive personal portfolio website to showcase projects, skills, and experience. Implemented interactive UI components and smooth navigation with modern web standards. Tech: HTML, CSS, JavaScript.
- AI Quiz Generator:** Developed an AI-powered quiz generation system that dynamically creates quizzes based on user-selected topics and difficulty levels. Automated question generation and evaluation using machine learning and NLP techniques. Tech: Python, NLP, AI.
- Cloud-Based Application Hosting and Deployment:** Deployed and managed a web application on cloud platforms using virtual machines and storage services. Configured scalable hosting, secure access, and continuous deployment pipelines to ensure high availability and performance. Tech: AWS, EC2, S3, Linux, Git.

CERTIFICATIONS

- Java Certification:** Core Java concepts, object-oriented programming, and application development.
- Python Programming Certification:** Python fundamentals, data structures, and scripting for real-world applications.
- Practical Cybersecurity for Cybersecurity Practitioners:** Hands-on exposure to cybersecurity principles, threats, and defensive techniques.
- Introduction to Industry 4.0:** Concepts of automation, IoT, cloud computing, and smart manufacturing systems.

AREAS OF EXPERTISE

- Data Analysis Visualization:** Python, Excel, Tableau; extracting insights and creating visualizations.
- Full Stack Web Development:** HTML, CSS, JavaScript, React, Node.js; building responsive web applications.
- Cloud Computing Deployment:** AWS, Azure, GCP; deploying scalable and reliable applications.
- Database Design Management:** SQL, NoSQL, query optimization, and data integrity.