

GAGAN SHUKLA

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SUMMARY

Full-Stack Developer and App Developer with expertise in MERN and MEAN stacks, Java, and Flutter. Skilled in developing scalable web applications, dynamic frontend interfaces, and robust backend systems with RESTful APIs. Experienced in AI/ML development, chatbot prototyping, and emotion detection models. Strong problem-solving abilities, with a proven track record of delivering high-quality applications through hackathons and internships. Passionate about creating innovative and user-centric solutions in web and mobile development.

EDUCATION

Bachelor Of Technology in Computer Science and Engineering (CSE) Amity University – Raipur	Expected: June 2025
<ul style="list-style-type: none">Relevant Coursework: Software Engineering Principles, Cloud Computing, Data Structures and Algorithms (Java)Artificial Intelligence (Python), Web Development (JavaScript), Application Development (Kotlin\ Dart)	

EXPERIENCE

EI System Pvt. Ltd <i>AI Developer (Intern)</i> Noida, India	<i>June 2024 – August 2024</i>
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- Developed and optimized machine learning models using Python, improving prediction accuracy by 30%.
- Engineered scalable AI solutions with TensorFlow and scikit-learn, reducing model training time by 25%.
- Implemented data preprocessing pipelines, enhancing feature extraction efficiency by 40%.
- Integrated ML algorithms into real-world applications, automating decision-making processes and boosting operational efficiency.

Codelevate Pvt. Ltd. <i>Full Stack Developer (Intern)</i> Remote	<i>January 2025 – March 2025</i>
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- Developed a full-stack e-learning platform using the MERN stack enhancing user engagement by 40%.
- Designed and implemented an interactive project showcase and educational content system, improving accessibility and learning experience.
- Optimized backend performance with Express.js and MongoDB, reducing API response time by 30%.
- Integrated authentication and role-based access control, ensuring secure and seamless user interactions.

Internshala Pvt. Ltd. <i>Android Application Developer (Intern)</i> Remote	<i>June 2023 – August 2023</i>
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- Developed an Android application using Kotlin and SQLite, improving data management efficiency by 40%.
- Designed and implemented a structured database schema, optimizing query performance and reducing load times by 30%.
- Integrated a responsive UI with Jetpack Compose, enhancing user experience and accessibility.
- Implemented CRUD operations with SQLite, ensuring seamless data storage and retrieval.

PROJECTS

Community Resource Exchange Hub <i>(Full-Stack Web Application – MERN Stack)</i> Technologies: React.js, WebSocket, Flask, MongoDB
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- Architected and deployed a scalable, community-driven platform for resource sharing using MongoDB, Express.js, React.js, and Node.js.
- Engineered a secure authentication system with JWT and OAuth, ensuring robust user verification.
- Implemented a real-time contribution tracking system with WebSockets for dynamic updates.
- Optimized MongoDB queries and indexing, reducing data retrieval latency by 35%.
- Integrated RESTful APIs and microservices architecture, enhancing platform modularity and performance.

E-Learning Platform <i>(Internship Project) (Full-Stack Web Application – MERN Stack)</i> Technologies: React.js, JWT, MongoDB
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- Engineered a dynamic e-learning platform for project showcases and educational content management.
- Implemented role-based access control (RBAC) and JWT authentication, ensuring secure user interactions.
- Optimized backend using MongoDB aggregation pipelines, improving query efficiency by 30%.
- Designed an intuitive React.js frontend with Redux for state management, enhancing user experience.

Emotion Detection Model <i>(AI/ML)</i> Technologies: Python, TensorFlow, OpenCV

- Built a CNN-based deep learning model for real-time facial emotion detection using TensorFlow.
- Preprocessed image datasets using OpenCV and NumPy, improving feature extraction.
- Integrated the model into a Flask web application for real-time emotion analysis.
- Optimized hyperparameters with Keras Tuner, improving model accuracy by 15%.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C++, TypeScript, Kotlin
Frameworks and Tools: React.js, Angular, Node.js, Flask, TensorFlow, MySQL, MongoDB, GitHub Actions
Concepts: Data Structure & Algorithms, RESTful APIs, Machine Learning, Agile Development, Web Development
Soft Skills: Adaptability, Communication, Leadership, Problem Solving, Analytical Thinking
Platform: Window and Linux

CERTIFICATION

AWS Certification	Amazon, 2023
Cloud Computing Certification	IBM, 2023
Master in Machine Learning	Google, 2024
START Certification	ISRO, 2025

AWARDS AND ACHIEVEMENTS

- Winner** – IDE Bootcamp, organized by the Ministry of Education, for innovative problem-solving and strategic thinking.
- 1st Place** – Think Tank 1.0, a national-level innovation challenge by the Ministry of Education, recognizing exceptional analytical and technical skills.
- Continuous Winner (2021-2024)** – Internal Smart India Hackathon (SIH), consistently excelling in full-stack development, AI-driven solutions, and problem-solving innovation.

LANGUAGES

- HINDI**, Native
- ENGLISH**, Fluent
- FRENCH**, Beginner