

# AYUSH GUPTA

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [GFG](#) | [LeetCode](#)

## EDUCATION

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### ZAKIR HUSAIN COLLEGE OF ENGINEERING AND TECHNOLOGY ALIGARH MUSLIM UNIVERSITY

Bachelor of Technology in Mechanical Engineering  
CGPA: 7.738

Aligarh, India  
Aug 2021 - 2025

### KENDRIYA VIDYALAYA NO. JLA BAREILLY CANTT

12th- 94.6%

Bareilly, India  
2020-21

10th- 94.8%

2018 -19

## EXPERIENCE

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### Indian Institute of Technology Roorkee (IITR)

#### Product Designer

Roorkee, India | April 2024 - Present

- Designed intuitive UIs with Adobe XD and Sketch, collaborating on responsive designs using HTML, CSS, and JavaScript frameworks.
- Utilized SolidWorks and AutoCAD for precise 3D modeling, integrating computational geometry to optimize designs for manufacturing.
- Leveraged SQL and NoSQL databases for user data analysis, driving design decisions and enhancements, and implementing clear data visualization tools.

#### Summer Research Intern

Roorkee, India | Jun 2023 - Aug 2023

- Hazard identification methodology for determining the causes and consequences of deviations of process variables from design intent.
- Conducted hazard identification using advanced algorithms and the PHA Works framework; identified and mitigated 50+ potential safety risks, resulting in a 40% decrease in workplace incidents and ensuring compliance with industry regulations.
- This can lead to more comprehensive risk assessments and better decision-making.

#### SAE ZHCET | Web Developer

June 2023 - Present

- Developed a responsive web app for optimal user experience across devices.
- Designed a user-friendly SAE club website, enhancing online presence.
- Created a Grievance/Query Portal for effective communication and issue resolution.

#### Software Developer Intern | [CHINGU](#)

California, US | Feb 2023 - Present

- Applied methodologies to manage the project and ensure timely delivery. California, US
- Contributing to the overall success of the project by delivering high-quality front-end code on time and meeting project requirements.
- Demonstrating strong problem-solving skills and ability to work effectively in a team-oriented environment.

#### UI/UX Designer | [CHINGU](#) | [Link](#)

- Utilized wireframing and prototyping tools to iterate and refine user interfaces.
- Applied heuristic evaluation and usability testing methodologies for data-driven design decisions.
- Integrated UX/UI best practices, including accessibility standards and responsive design principles.

## SKILLS

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Programming Languages: C / C++, Python, HTML/CSS, Javascript

Libraries/Frameworks: **React js**, Node.js, Express.js, **Django**, Flask, FastAPI, Bootstrap, Pandas, NumPy, Scikit- Learn

Tools / Platforms: Redux, XML, AJAX, UI Optimization, Web Development, User Experience Design, Data Structures and Algorithms, Object Oriented Programming Concepts

Databases: MongoDB, MySQL

## PROJECTS

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### **INSTA CLONE** | [Link](#) *HTML, CSS, JS, React js, Express js, MongoDB, Node js, APIs, Bootstrap*

- Created full user authentication system with signup, sign in, and password reset.
- Enabled core social interactions: create, like, unlike, comment, view likes, delete posts.
- Designed user engagement: profile view, edit, follow/unfollow, search by email.
- Optimized UX with responsive design, welcome emails, password reset notifications.

### **SAE-ZHCET WEBSITE** | [Link](#) *HTML, Tailwind CSS, Js, React.js, Node.js, Express js, MongoDB, Figma*

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from users repositories
- Visualized GitHub data to show collaboration.
- Used Celery and Redis for asynchronous task.

### **SMS Spam Detection** | [Link](#)

*Numpy, Pandas, Tensorflow, SkLearn, Matplotlib, NLTK*

- Demonstrated exceptional model performance with a 97.41% accuracy, showcasing the efficacy of implemented algorithms and preprocessing techniques.
- Achieved an outstanding precision of 97.26%, highlighting the model's accuracy in identifying spam while minimizing false positives.
- Implemented k-fold cross-validation for robust model validation across diverse datasets.
- Leveraged confusion matrices to strategically reduce false positives by 15%, enhancing model reliability.
- Utilized the NLTK library for effective text preprocessing, augmenting the model's understanding of email content.

### **Wine- Quality Prediction** | [Link](#)

*Numpy, Pandas, Seaborn, Matplotlib, XgBoost*

- Wine-Quality Prediction using dataset taken from Kaggle.
- Selecting models with precision, with Logistic Regression and SVC excellent with validation data.
- Identified minimal difference between training and validation data, indicating strong generalization.
- Used confusion matrix and logistic regression, demonstrated data presenting skills.

## HONORS & AWARDS

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Institutional GFG Rank 46

AIR 208 in AMUEEE

AIR 245 in IPMAT

Jee mains 96.8 %ile

SSB interview round Out

Winner - Project Plan Report (SAE-NIS Efficycle 2021).