AYUSH GUPTA

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LinkedIn | Portfolio | GitHub | GFG | LeetCode

EDUCATION

ZAKIR HUSAIN COLLEGE OF ENGINEERING AND TECHNOLOGY
ALIGARH MUSLIM UNIVERSITY   Aligarh, India
Bachelor of Technology in Mechanical Engineering   Dec 2021 - 2025
CGPA: 7.738

KENDRIYA VIDYALAYA NO.JLA BAREILLY CANTT   Bareilly, India
12th- 94.6%   2020-21

10th- 94.8%   2018 -19

EXPERIENCE

Indian Institute of Technology Roorkee (IITR)   Roorkee, India | Jun 2023 - Aug 2023
Summer Research Intern
- 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

Programming Languages: C / C++, Python, HTML/CSS, Javascript
Libraries/Frameworks: React, Node.js, Express.js, Flask, FastAPI, Bootstrap, Pandas, NumPy, Scikit-Learn
Tools / Platforms: Redux, XML, AJAX, UI Optimization, Web Development, User Experience Design, Data Structures and Algorithms, ObjectOriented Programming Concepts.
Databases: MongoDB, MySQL

PROJECTS

INSTA CLONE | Link *HTML, CSS, JS, React js, Express js, MongoDB, Node js, APIs, Bootstrap, MySQL*
.
- Created full user authentication system with sign up, 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.
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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

Institutional Rank 82 on GFG

2 star at CodeChef

AIR 208 in AMUEEE

AIR 245 in IPMAT

SSB interview round Out

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