BISHAL KUMAR ROY

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EDUCATION

- **Kalinga Institute of Industrial Technology, Bhubaneswar** — Bhubaneswar, India
  Master of Computer Applications; CGPA: 7.93 — *August 2023 - June 2025*

- **GLA University, Mathura** — Mathura, India
  Bachelor of Computer Applications; CGPA: 7.43 — *August 2020 - June 2023*

SKILLS SUMMARY

- **Languages:** Java, C++, HTML, CSS, JavaScript
- **Frameworks and Tools:** MySQL, Git and GitHub, OOPS, LaTeX
- **Platforms:** Web, Windows, Linux
- **Soft Skills:** Problem Solver, Leadership, Event Management, Time Management, Public Speaking

PROJECTS

- **Preyas – Defence Exam Preparation App:** Developed an app to aid students in preparing for defense exams, including AFCAT, CDS, SSC CGL, NDA, and SBI PO. The app offers comprehensive exam information, practice tests, study materials, and performance tracking. Utilizing **Java**, **Android Studio, Firebase, XML,** and **Android SDK**, I managed large volumes of data, designed a user-friendly interface, and optimized app performance. Successfully implemented all features, the app received positive user feedback for its usability and comprehensive resources.

  GitHub: here

- **Portfolio Website:** Developed a personal portfolio website using **HTML, CSS,** and **JavaScript.** The website showcases my projects, skills, and experiences in a visually appealing and responsive design. Key features include an interactive project gallery, a detailed resume section, and a contact form. Emphasized clean, modern design principles and ensured cross-browser compatibility. The project demonstrates my proficiency in front-end web development and attention to user experience.

  GitHub: here

- **Diabetes Prediction Using Machine Learning:** Developed a machine learning model to predict diabetes by handling missing values, performing extensive EDA, and standardizing data. Utilized a range of models including **Random Forest, XGBoost** (optimized with RandomizedSearchCV), **KNN, Naive Bayes, SVM, Decision Tree,** and **Logistic Regression**. Assessed model performance using metrics like accuracy, F1 score, precision, and recall. Created data distribution plots, correlation heatmaps, and confusion matrices using Seaborn and Matplotlib for effective visualization. Employed tools and libraries such as Python, Pandas, NumPy, Scikit-Learn, XGBoost, Mlxtend, and Missingno. Future work involves implementing the model in web and mobile applications for real-time diabetes prediction.

  GitHub: here

ACHIEVEMENTS

- **Academic Excellence:** Consistently maintained a high CGPA throughout my undergraduate and graduate studies.

- **Project Recognition:** Preyas app received positive feedback from users.

- **Leadership:** Led a team of 5 members in a group project, resulting in a successful project delivery and positive feedback.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Nepali
- **Hobbies:** Traveling, Learning New Technologies, Sports

DECLARATION

I hereby declare that all the above mentioned information is true and correct to the best of my knowledge.