Prakhar Gupta

Indian Institute of Technology, Goa

Fourth Year **Undergraduate**, **Computer Science and Engineering**
Address: 62-A, Kurmitola, Azamgarh
E-mail: **prakhar.gupta.21031@iitgoa.ac.in**
Mobile: **+91 8858968971**
LinkedIn: **Prakhar Gupta**
Github: **prakhar619**

Education

BTech, Computer Science and Engineering, Indian Institute of Technology Goa	CGPA : **7.53/10**	2021 – Present
Class 12, CBSE, St.Xavier's High School, Ailwal	Aggregate: **93.2** %	2019 – 2021
Class 10, ICSE, Jyoti Niketan School, Atlas Tank	Aggregate: **95.4** %	2017 – 2019

Experience

Technology Analyst, ProcDNA   (Jan 25 – Present)
- Improved query performance by 27% by implementing column encoding.
- Automated QC processes in PostgreSQL and validating data integrity through covariance checks.
- Delivered 10+ dashboard solutions for a pharmaceutical client, focusing on data management and analytics.

Projects

WRKFLOW [Github]   (May 24 – Jun 24)
- Built a MERN stack Dashboard Web App with scalable MVC architecture.
- Optimized React CSR for load times under 2 seconds, ensuring smooth performance.
- Engineered backend with Express.js and MongoDB, achieving sub-50ms CRUD responses.

Novel AutoComplete [Github]   (May 24 – Jun 24)
- Engineered a LSTM architecture resulting in a 30% improvement compared to RNN.
- Used TensorFlow and incorporated Beam Search for decoding text sequences for higher accuracy.
- Extended the model to use Transformer architecture, reducing training time by 65% over traditional model.

Lab Coordinator [Github]   (Feb 24 – Mar 24)
- Built backend with Node.js and EJS for efficient runtime and templating.
- Used SQLite supporting ACID transactions with query execution under 1 millisecond.
- Deployed Lab assessment app enabling seamless coordination with hierarchical logins, tested for 50+ users.

Skills

Programming Skills:	C, C++, C#, Python, Java, TypeScript, Bash, SQL
Software Skills:	Git, VS, VS Code, PowerBI, Excel, Tableau, Figma, Docker, AWS
Frameworks/Libraries and OS:	Ubuntu, NodeJS, ExpressJS, Spring Boot, Bootstrap, React, MongoDB
Relevant Coursework	Data Structures and Algorithms, Computer Networks, Computer Architecture, Unix Tools

Positions of Responsibility

Wing Representative	Hostel Wing Representative in Student Panchayat	(2022 – 2023)
Core-Member	Alpha - Finance Club of IIT Goa	(Mar 23)
Event Overseer	Cepheus KBC Event Overseer	(2023 – 2024)

Extracurriculars & Hobbies

- Gaming enthusiast, engaging in fps, strategic, indie and open-world gameplays.
- Dedicated bookworm with a love for literature, exploring diverse genres and authors.
- Competitive table tennis player, participating in tournaments and friendly matches in spare time.
- Committed to environmental stewardship, volunteering with Varaha, the Climate Change Society, to clean various beaches.