ARPIT GUPTA

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EDUCATION

- **VIT Bhopal University** *(August, 2022)*
  B. Tech CSE(Core) | CGPA: 8.85
- **Kendriya Vidyalaya No 2 AFS Kanpur** *(May, 2021)*
  Higher Secondary | Percentage: 92%

SKILLS

- **Languages:** Java, Kotlin, Python, SQL, HTML, CSS.
- **Tools:** Git, GitHub, Postman, FastAPI, MS Excel, Canva, Figma.
- **Frameworks/Technologies:** Flutter, Android Development, REST API, DBMS.
- **Database:** MySQL, MongoDB, Firebase.
- **Core Competencies:** Foundation of Algo, Data Structures Algorithms, Software Development, Operating Systems.

PROJECTS

AES Image Encryptor *(Feb, 2023)*

- **Engineered an advanced image encryption platform utilizing the AES algorithm**, which bolstered data protection measures and achieved a notable reduction in data breaches by 50% within the initial quarter.
- **Created high-performance** encryption algorithms, optimizing data protection practices that increased processing speed by 30%; ensured compatibility with existing systems while collaborating directly with the front-end development team.
- **Enhanced the front-end interface** of an image encryption platform, establishing a user-friendly experience that streamlined over 1,000 secure image uploads weekly while ensuring data integrity and safety throughout the process.
  Project Link

VITGPT *(Aug, 2023)*

- **Launched an AI-driven chatbot** for VIT students, resulting in a 40% reduction in manual inquiry handling time and providing instantaneous responses to student questions, benefiting over 5,000 users each academic year.
- **Spearheaded the integration of Firebase**, enhancing real-time data management and improving user authentication protocols, leading to a 25% increase in the responsiveness of chatbot interactions for over 5,000 students.
- **Managed and secured user data** for over 500 students, streamlining database operations which led to an increase in system efficiency by 30% that benefited student interactions throughout the academic year.
- **Led research to enhance the chatbot's natural language processing**, working with a team of 3 to improve its accuracy in addressing student queries and providing precise campus information, boosting user engagement.

RESEARCH PAPER

Numerical and computational analysis on population control

- **Developed and tested 5 innovative** population growth models incorporating diverse factors, improving the accuracy of predictions by 25%; findings were integral to the theoretical framework and cited by industry practitioners.
- **Translated complex computational analyses** into 12 understandable sections for a research paper, facilitating comprehension among both technical experts and general readers while enhancing the accessibility by over 30%.
- **Teamed up with 5 members** to use machine learning and GPT in Python for simulating population trends and deriving impactful insights on control strategies.

EXTRA-CURRICULARS AND ACHIEVEMENTS

ACHIEVEMENTS

- **Engaged in a disciplined 200 Days of Code challenge** centered on Java and Data Structures & Algorithms; **tackled 600+ coding challenges**, leading to the creation of a personal portfolio showcasing enhanced coding proficiency.

EXTRACURRICULAR

- **DSW Office Member - VIT Bhopal** University December 2022 – Ongoing, Managing Editor (Monthly Newsletter), April 2023- June 2023
- Led strategic planning sessions within the **Partnership Team at VIT Bhopal's AI Club**; established relationships resulting in three new sponsorships that provided valuable resources to enhance club operations.

ADDITIONAL INFORMATION

- **Hobbies**- Tech Trendy, Gaming, Cooking, Listening Music, Photography
- **Languages:** English (Professional working proficiency), Hindi (Native or bilingual proficiency)