Arhaan Gupta

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EDUCATION

- **Lovely Professional University** *August 2023 - July 2027*
  B.Tech in Computer science and Engineering Phagwara, India

EXPERIENCE

- **IIT Kharagpur**
  Research Intern
  ◦ Developed and standardized annotation protocols that increased labelling accuracy by 15%, ensuring high-quality data for downstream machine learning model training.
  ◦ Annotated over 15,000 data samples with precise Likert-scale scores, enhancing dataset accuracy and contributing to a 20% improvement in model performance during validation phases.
  ◦ Optimized data processing pipelines for QA tasks, resulting in a 40% decrease in error rates and improving overall evaluation reliability across diverse model applications.

PROJECTS

- **MediVista : AI-Powered Medication system**
  Tools: Python, scikit-learn, pandas, pyttsx3, Decision Tree, SVM, NLP, CSV
  ◦ Engineered a disease prediction system utilizing Decision Tree and SVM classifiers, achieving 92% accuracy and reducing diagnostic time by 30%, leading to faster clinical decision-making.
  ◦ Developed and optimized machine learning models using scikit-learn and pandas, achieving over 90% accuracy in symptom-based predictions, thereby enhancing diagnostic reliability for clinical applications.
  ◦ Applied NLP preprocessing and cross-validation techniques, improving model reliability and generalization by 20%.

- **Restaurant Management: Created a website for user interface for menu and Data management.**
  Tools: HTML,CSS,Js,Python,SQL
  ◦ Developed a Python-based restaurant menu management application with an integrated SQL database, improving order and menu processing efficiency by 30%.
  ◦ Implemented SQL-driven CRUD operations for customer orders, menu items, and billing data, reducing manual data handling time by 40%.
  ◦ Designed a customizable and interactive UI that enhanced order placement speed and user experience by 25%.
  ◦ Applied robust data validation, monitoring, and structured schema design, increasing overall database integrity and reliability by 35%.

SKILLS

- **Programming Languages:** C, C++, Python, SQL, PL/SQL, Java, R
- **Web Technologies:** HTML, CSS, JavaScript, Node.js, React
- **Other Tools & Technologies:** Power BI, Cognos, pyttsx3, OpenCV, Tkinter, scikit-learn, seaborn, pandas, NumPy, Matplotlib, Git, Linux, VS Code, PyCharm, GitHub, Microsoft Excel, MongoDb
- **Research Skills:** Literature Review, Model Evaluation, Data Collection, Monitoring, Preprocessing

CERTIFICATIONS

- **Cloud Analytics (Oracle)** *October 2025*
- **R Programming for buisness Analytics (NPTE)** *October 2025*
- **RDMS (IBM)** *March 2025*
- **Python (IBM)** *March 2025*
- **Software Development Processes and Methodologies (Coursera)** *March 2024*
- **Copywriting and SEO (Udemy)** *October 2023*

ACHIEVEMENTS

1. Successfully completed Deloitte's Data Analytics Job Simulation.
2. Finalist in the Smart India Hackathon(Software)
3. Ranked among the top 10 teams in the MEDHA Hackathon.
4. Secured 2nd place in the Celestia and Code Caravan hackathons.
5. Coordinated marketing operations as part of the Sunburn event team