Ishita Gupta

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EDUCATION

- **Shiv Nadar University** — Delhi NCR, India
  Bachelor of Technology - Chemical Engineering; GPA: 7.63 — *August 2020 - May 2024*
  Minor in Business Management Studies
- **Delhi Public School** — Kanpur, India
  Class X (CBSE); GPA: 94, Class XII (CBSE); GPA: 93.4
  Relevant Courses: Introduction to Python, Analysis and Business Modelling using Excel, Advanced Strategic Management, Process Equipment Design, Japanese Management, Computational Fluid Dynamics, Numerical Methods

SKILLS SUMMARY

- **Languages & Tools**: Python, SQL, Advanced Excel, Power BI, PostgreSQL, MySQL, SQLite, TensorFlow, MATLAB
- **Soft Skills**: Interpersonal Communication, Negotiation, Public Speaking, Analytical Thinking, Adaptability

EXPERIENCE

- **Lohum Cleantech** — Noida, IND
  Business Analyst Intern — *Feb 2024 - Aug 2024*
  - **Automated MIS**: Developed a live automated MIS for Dismantling unit of Second Life Energy Storage Systems (ESS), enabling efficient weekly updates and inventory management.
  - **Machine Learning for Critical metal trade**: Developed a hybrid model using LSTM and Transformers for critical metals trade prices and semantic analysis, correlating sentimental data by creating 'impact lags'.
  - **Power BI dashboards for battery export**: Built Power BI dashboards for battery trade data analysis, maintaining and integrating databases using MYSQL and automating forecasts to refine procurement.
- **Defense Research & Development Organization (DRDO)** — Delhi, IND
  Trainee - Research — *May 2023 - July 2023*
  - **Environmental Impact Analysis**: Conducted Environmental Impact Analysis on pyrotechnic compounds at the Center of Fire, Explosives, and Environment Safety.
  - **Disposal Methods Evaluation**: Evaluated disposal methods such as Supercritical Water Oxidation, Plasma Arc Thermal Decomposition, Autoclaving, and Bioremediation, reducing hazardous residues by 19%.
  - **Advanced Monitoring**: Implemented advanced monitoring and handling techniques, significantly lowering operational costs and improving process safety.

PROJECTS

- **Uber NYC Trip Data Analysis (Python, GCP, SQL)** — *December '23*
  Designed a data model and ETL pipeline using Google Compute Engine, processing over 1 billion trip records to uncover peak demand patterns, achieving a 9% reduction in idle fleet time. Built an interactive dashboard in Looker Studio for real-time insights to enhance fleet management and cost optimization. **Tech:** Python, Google Compute Engine, SQL, Looker Studio

- **NYSE Price Prediction with Stacked LSTM (Reinforcement Learning, Machine Learning)** — *August '23*
  Developed a multi-layered stacked LSTM model for forecasting NYSE equity prices with over 15 years of extensive historical data. Integrated real-time prediction and back-testing to enhance forecasting accuracy, supporting data-driven investment strategies. **Tech:** Python, LSTM Model, TensorFlow

- **Jarvis AI (Virtual Chat Bot Assistant) (NLP, Automation)** — *July '23*
  Created an AI-driven desktop assistant using Python and OpenAI API, automating tasks like email scheduling, file management, and calendar integration, resulting in a 30% improvement in task efficiency. Incorporated NLP for voice command interaction, enhancing workflow and user experience. **Tech:** Python, OpenAI API, NLP

- **Polymeric Membranes for Wastewater Treatment (Material Science, Chemical Engineering)** — *May '23*
  Analyzed the chemical, physical, and thermal characteristics of biochar using various analysis methods. Formulated over 50 biochar-based composite membranes via spin coating, contributing to enhanced oil-water separation performance metrics. **Tech:** Python, MATLAB, TGA, FE SEM, FTIR, GCMS, BET, XRD

ONLINE CERTIFICATIONS

- **Excel Advanced Functions and Formulas**: LinkedIn Learning
- **Applied Data Science with Python Specialization**: Coursera
- **Microsoft Power BI, The Practical Guide**: Udemy
- **SQL (Basic and Intermediate)**: HackerRank
- **Consumer Behaviour**: NPTEL

LEADERSHIP & VOLUNTEER EXPERIENCE

- **Director General, Cawnpore Consonance Model United Nations**: Managed events, logistics & team operations
- **Team Lead, Nexus Gaming Society**: Led Team Bravo and organized competitive PC gaming events to foster teamwork
- **Marketing Lead, Strategen Society**: Led awareness initiatives to engage students in human science topics
- **Active Member, Lions Clubs International**: Contributed to service projects focused on food drives