Sarthak Basu

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EDUCATION

Bachelor of Science in Mathematical Science   *Jan. 2022 - Present*
New Jersey Institute of Technology (NJIT) | Newark, NJ
- Relevant coursework: Database System Design & Management, Statistical Methods in Data Science, Mathematical Modelling, Regression Analysis, Statistical Computing with SAS and R

A.S. in Mathematics and Computer Science   *Sept. 2019 – Dec. 2021*
Bergen Community College (BCC) | Paramus, NJ

TECHNICAL SKILLS

- **Programming:** Java, Python, C++, SQL (Oracle), R
- **Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, Excel (Pivot Tables, VLOOKUP)
- **Tools & Platforms:** Google Cloud, VS Code, Visual Studio, GitHub
- **Database Management:** SQL, Oracle
- **Soft Skills:** Leadership, Problem-Solving, Critical Thinking, Adaptability

PROFESSIONAL EXPERIENCE

Mentor, STEPSS Program (18-21)   *May 2024 – Aug. 2024*
Ridgewood Public Schools | Ridgewood, NJ
- Conducted student skill development through structured meetings and mentoring.
- Improved website usability by creating a service provider database.

Math Intern   *July 2022 – May 2023*
PYE Education Center | New York, NY
- Designed custom math worksheets using LaTeX and provided constructive feedback.
- Mentored students to develop effective study habits.

IT Assistant   *Sep. 2021 – June 2022*
Ridgewood Public School District | Ridgewood, NJ
- Resolved hardware/software issues and optimized network systems.
- Managed inventory and enhanced IT efficiency.

PROJECT EXPERIENCE

Tourist Activity Database | *Excel, Tableau Public*   *Dec. 2024 - Jan. 2025*
- Designed a visually engaging Tableau dashboard showcasing travel and event highlights across some states
- Utilized Excel Pivot Tables and VLOOKUP alongside Tableau's visualization tools to organize and display insights effectively.

Weather Data Management System | *SQL, Oracle*   *Aug. 2024 – Oct. 2024*
- Developed robust SQL scripts for database schema design, focusing on efficient data storage.
- Utilized queries and exception handling to maintain data integrity across weather records.

Car Rental Management System | *SQL, Oracle*   *May 2024 – Aug. 2024*
- Designed a web-based application to streamline rental operations, from reservations to billing.
- Implemented features to track vehicles, rental rates, and customer reservations efficiently.

Health Data Analysis Program | *Python, Pandas, NumPy*   *May 2023 – June 2023*
- Conducted in-depth data analysis to uncover healthcare trends using advanced visualizations.
- Applied machine learning models, including Random Forest, to improve prediction accuracy.