Anushka Sarkar

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CAREER OBJECTIVE

Aspiring Data Analyst with hands-on experience analyzing over 95+ data points across multiple internships. Proven ability to improve process efficiency by 20%–30% through automation, data cleaning, and actionable visualizations. Eager to apply my expertise in Python, Excel, and BI tools.

WORK EXPERIENCE

Associate Business Analyst   Sep 2025 - Present
NxtWave, Hyderabad

• Manage and optimize large-scale employee and student data across HR, Finance (Payroll) and Onboarding departments, leading to a 25% improvement in data accuracy.
• Extract and process data from Darwinbox and internal systems using SQL, streamlining operations and reducing errors by 20%.
• Build interactive dashboards in Power BI to visualize payroll metrics, departmental performance, and data-driven decisions.
• Deliver actionable insights that improved departmental efficiency by 15% and supported performance tracking across teams.

Data Analyst Intern • Internship   Jan 2025 - Mar 2025
Aeries technology, Virtual

Spearheaded data collection, cleaning, and analysis for 5K+ records to support business goals and product teams.
- Built and validated machine learning models, improving prediction accuracy by 18% using Python and Scikit-learn.
- Created 7+ data visualizations and performed basic statistical analysis to uncover actionable insights.
- Developed 250+ lines of clean, modular Python code for preprocessing and analysis using Pandas and NumPy, reducing processing time by 27%.
- Partnered with 2+ cross-functional teams to translate business needs into data solutions.
- Documented workflows, findings, and reusable code to support internal knowledge sharing.

Business Analytics • Internship   Sep 2024 - Nov 2024
BluCongition, Virtual

- Optimized data collection and reporting processes, Reduced task duration by 20% and boosting operational efficiency.
- Implemented process improvements and automation solutions, resulting in 15% increase in productivity.
- Collaborated with cross-functional teams to gather project requirements, define project scopes, and ensure alignment with business objectives, ensuring efficient resource allocation and timely completion.
- Produced 15+ comprehensive reports and presentations summarizing findings and recommendations, facilitating clearer communication with stakeholders and driving actionable outcomes.
- Conducted root-cause analysis and trend analysis, leading to the identification of 10+ key trends and insights that improved decision-making and business strategies.

Web Development • Internship   Aug 2024 - Sep 2024
MyDailyWork, Virtual

Task 1- I created a Landing page (E-books page)   with the help of html, css, node js, js.
Task 2- create a calculator using CSS,HTML, and javascript.
Task 3- Quiz Application that is users authentication and mobile responsiveness.

Data Analytics • Internship   Jul 2024 - Aug 2024
Congnorise Infotech, Virtual

I Analysed the dataset with the help of python programming and python libraries like Pandas, seaborn etc.
I use Tableau , Microsoft Excel and Power BI.

International Calling • Internship   Jul 2024 - Present
Ck & Sons Textiles, Virtual

Managing cold calling
Generate leads
Managing emails and schedule calls

Social Entrepreneur • Internship   Feb 2024 - Mar 2024
Hamari Pahchan NGO Entrepreneurship, Virtual

Managing social media accounts
Event handling or planning
Built a social connection
Learnt how to work professionally

Front End Development • Internship   Feb 2024 - Apr 2024
CISCO, Virtual

- Creating a responsive web page with the help of html5, CSS3, React.js, bootstrap. Implemented UI/UX designs and optimized for speed and scalability.
- Testing and Debugging: Fixed bugs and performed cross-browser/device testing.
- I use to managed code changes and collaborated using Git.
- Skills that i acquire through out my internship are- HTML, JS, Bootstrap, CSS, jQuery, MySQL, ReactJS

EDUCATION

Bachelor of Science (B.Sc), Computer Science   2022 - 2025
Babu Banarasi Das University

Senior Secondary (XII), CBSE   2021
Science

Kendriya Vidyalaya

CGPA: 8.00/10

Secondary (X), CBSE   2019
Kendriya Vidyalaya

CGPA: 8.00/10

TRAININGS / CERTIFICATIONS

Learning Data Analytics
Jun 2025 - Aug 2025

Linkedin, Virtual

- Learned end-to-end data analysis workflow using Python, SQL, Excel, and Power BI
- Performed data cleaning, transformation, and validation to prepare high-quality datasets
- Conducted Exploratory Data Analysis (EDA) to identify patterns, trends, and correlations
- Built interactive dashboards in Power BI to visualize KPIs and business insights
- Wrote SQL queries for data extraction, filtering, joins, aggregation, and reporting
- Applied statistics (correlation, hypothesis testing, distributions) to support decision-making

Python Training
May 2025 - Aug 2025

IIT Bombay, Virtual

- Learned core Python programming concepts including data types, functions, loops, and OOP basics
- Performed data handling and manipulation using Python libraries such as Pandas and NumPy
- Built small automation scripts to improve speed and reduce manual tasks
- Worked on hands-on exercises involving file handling, error handling, and data processing
- Implemented problem-solving programs using real-world logic building techniques
- Completed guided mini-projects to strengthen logic, debugging skills, and code structure

Data Visualization With Python
Mar 2025 - Jun 2025

IBM, Virtual

- Learned techniques to visualize data using Matplotlib, Seaborn, and Plotly for actionable insights
- Created charts, graphs, heatmaps, and interactive visualizations to represent complex data clearly
- Performed Exploratory Data Analysis (EDA) to identify trends, patterns, and correlations
- Customized visual elements (labels, colors, annotations) to enhance readability and storytelling
- Built end-to-end visualization workflows, from data loading to final insight presentation
- Applied visualization techniques on real-world datasets, improving analytical and communication skills
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Data Science
Feb 2025 - Apr 2025

IBM, Virtual

- Learning core Data Science concepts including data preprocessing, statistics, and exploratory data analysis (EDA)
- Working with Python libraries such as Pandas, NumPy, Scikit-learn, and Matplotlib to handle and analyze datasets
- Understanding machine learning fundamentals: supervised vs unsupervised learning, model evaluation, and prediction workflows
- Performing data cleaning, feature engineering, and transformation to prepare datasets for modeling
- Building small ML models (regression/classification) to understand accuracy, training, testing, and improvements
- Developing visualizations and insight-driven reports to communicate analytical findings

Excel Formula & Functions Basic To Advanced

Jan 2025 - Feb 2025

udemy, Virtual

- Learning essential to advanced Excel functions including VLOOKUP, INDEX-MATCH, IF, SUMIFS, COUNTIFS, and text formulas
- Developing skills in data cleaning, formatting, and spreadsheet automation for faster analysis
- Building dynamic reports using pivot tables, conditional formatting, and data validation
- Practicing real-world scenarios involving financial sheets, KPI tracking, and dataset analysis
- Enhancing accuracy and efficiency through formula optimization and error troubleshooting
- Working on guided exercises to strengthen problem-solving and spreadsheet modeling capabilities

Software Development Lifecycle And Agile Methodologies

Jan 2025 - Feb 2025

LinkedIn Learning Classes, Virtual

- Software Development Lifecycle and Agile Methodologies courses on Coursera or Udemy provide essential knowledge about software project management.
- They cover the different phases of the Software Development Lifecycle (SDLC) such as planning, designing, development, testing, deployment, and maintenance.
- These courses explain Agile principles and Scrum frameworks, focusing on iterative development and team collaboration.
- Learners gain insights into continuous integration and continuous delivery (CI/CD) practices that improve software quality and delivery speed.

Java Programming And Software Engineering Fundamentals

Jul 2024 - Sep 2024

Coursera, Virtual

- A beginner-to-intermediate level program that builds strong Java programming skills. Covers core Java, OOP, data structures, file handling, and debugging.
- Includes real-world project work and software engineering practices like modularization, testing, and code reuse.
- Great for aspiring software developers and backend engineers.

Data Structures And Algorithms

Mar 2024 - Jun 2024

GeeksforGeeks, Virtual

- A must-have for all software developers preparing for interviews.
- Covers time/space complexity, arrays, linked lists, stacks, queues, trees, graphs, recursion, sorting/searching, and dynamic programming.
- Includes coding problems and mock tests to enhance DSA mastery and problem-solving skills.
- All the concept of the DSA along with top +150 Most asked question practice.

React.js Certification – Meta

Jan 2025 - Feb 2025

Coursera, Virtual

- Built scalable and maintainable web applications using React.js
- Created reusable UI components to render dynamic views with changing data
- Utilized props and state to manage data flow and interactivity between components
- Implemented event handling and built forms to capture user input
- Structured React projects for better organization and maintainability
- Developed a complete web application using JavaScript (ES6+), HTML5, and CSS3

CS50's Introduction To Computer Science

Jul 2024 - Aug 2024

Harvard University On EdX, Virtual

- well-structured entry-level course covering core computer science principles.
- It introduces programming in C, data structures, algorithms, memory management, and web development basics.
- This course builds a strong foundation in computational thinking and problem-solving that every software developer needs, especially those who want to master low-level concepts alongside modern languages.

C++ Bootcamp

Apr 2024 - Jun 2024

udemy, Virtual

- The C++ Bootcamp from Internshala teaches the fundamentals of C++ programming from scratch.
- You'll learn about variables, data types, operators, and control flow statements like loops and conditionals.
- The course covers key concepts such as functions, arrays, pointers, and object-oriented programming including classes and inheritance.
- Hands-on coding exercises and projects help you build problem-solving skills and write efficient, modular code.
- By the end, you will be able to develop basic to intermediate C++ applications and prepare for coding interviews.

Web Development

Feb 2024 - Apr 2024

Internshala, Virtual

- Completed a comprehensive training program in web development, covering front-end and back-end technologies.
- Gained hands-on experience with HTML, CSS, JavaScript, and frameworks like React, along with backend development using Node.js, Express, and databases like MongoDB or MySQL.
- Developed responsive and dynamic web applications.

Java Programming Bootcamp

Jan 2024 - Mar 2024

Internshala, Virtual

- Gained hands-on experience in core Java programming concepts.
- Learned Object-Oriented Programming (OOP) principles including classes.
- objects, inheritance, polymorphism, encapsulation, and abstraction.
- Built Java applications using loops, conditionals, arrays, and methods.
- Worked with file handling, exception handling, and Java I/O streams.
- Explored data structures such as arrays, lists, stacks, and queues.
- Developed both console-based and GUI-based applications.
- Understood multithreading, Java collections framework, and commonly used Java APIs.
- Completed real-world assignments and mini-projects for practical learning.
  Used Eclipse and IntelliJ IDEs for Java application development.

PORTFOLIO

[Portfolio link ↗](#)

[GitHub link ↗](#)

[Kaggle link ↗](#)

[CodeChef link ↗](#)

[Medium link ↗](#)

[Leetcode link ↗](#)

PROJECTS

[MovieIndustry-EDA ↗](#)

Nov 2025 - Dec 2025

MovieIndustry-EDA : Data-Driven Insights for Profitable Films
A sharp, high-impact EDA project that breaks down what truly makes a movie successful — budget, genre, release timing, cast value & profit patterns — using Python, pandas and powerful visual analytics.
 Key Highlights

- Identifies the most profitable genres & budget sweet-spots
- Finds best release months for maximum earnings
- Ranks actors/directors by value contribution
- Uncovers profit, ROI & award-winning trends
- Clean, visual EDA for real studio decision-making

[Revenue Insights - Hospitality Sector Dashboard ↗](#)

Jul 2025 - Aug 2025

Analyzed data from 5+ hotel branches and 4 seasons to visualize and occupancy. Enhanced report accuracy by 27% and executive insights by 31% with DAX and Power BI.

Nutrition-Analytics ↗
Jul 2025 - Aug 2025

• Analyzed multiple datasets (Cereal Nutrition, Wine Quality, Employee Salary) using Python, Pandas, and Matplotlib, improving insight accuracy by 30%.
• Cleaned, transformed, and validated raw data, reducing noise and improving model quality by 25%.
• Built ML models (Regression & Classification) to predict quality scores and salary trends with strong performance metrics.
• Designed clear visual insights through Power BI/Tableau dashboards to highlight patterns, correlations, and key factors.
• Delivered findings that improved decision-making and showcased end-to-end data analysis capability.

Advanced Query Optimizer
Mar 2025 - May 2025

- Solved inefficient SQL query execution by developing an Advanced Query Optimizer that selects the most efficient query plans.
- Optimized query execution time by up to 40% using cost-based techniques and dynamic programming for join order and index selection.
- Addressed the problem of slow database responses in large datasets by implementing heuristic and cost estimation methods.
- Enhanced DBMS performance in complex query scenarios through integration with a simulated database system using Java/C++.

CredTech-Hackathon ↗
Feb 2025 - Mar 2025

Collaborated in a fast-paced hackathon environment to design and implement a fintech data-analysis solution using Python / SQL / relevant tools.
Extracted, cleaned, and processed transactional and user-data sets, improving data integrity and reducing noise/errors by ~25%.
Engineered data pipelines and applied analytics/ML techniques to detect credit-risk or financial-behavior patterns, helping to surface actionable insights.
Built interactive dashboards to visualize financial KPIs and credit metrics, enabling quick decision-making and scenario analysis.
Delivered a working prototype (MVP) under strict time constraints, demonstrating strong problem-solving, teamwork, and delivery skills in a real-world domain.

Amazon Review Analysis Project ↗
Dec 2024 - Jan 2025

• Analyzed large-scale Amazon customer review data using Python, improving sentiment-classification clarity by 30%.
• Cleaned, prepared, and transformed raw text data (tokenization, stop-word removal, lemmatization) to boost model quality by 25%.
• Built sentiment-analysis models to predict customer review polarity with high accuracy and actionable performance metrics.
• Created visual dashboards to track sentiment trends, common keywords, and rating patterns for better business insights.
• Delivered insights that highlighted user behavior, product perception, and sentiment shifts—strengthening decision-making for product teams.

RetailSight 360 - End-to-End Sales Analytics ↗
Apr 2025 - Jun 2025

Developed an interactive dashboard analyzing over 2,500 rows of retail sales data across 3 regions and 6 product categories. Automated data transformation pipelines in Power Query, reducing manual reporting effort by 72%. Improved sales decision-making insights by 39%, using advanced filters, slicers, and dynamic visuals.

RaktLink – Location-Based Blood Donation Platform (Final year Project) ↗
Jan 2025 - Mar 2025

- Designed a real-time donor-recipient matching system with 10 km geofencing, reducing connection time by 70%.
- Integrated Firebase Auth and Google Maps API to handle 100+ simulated user requests with <2s>
- Implemented instant notifications and modular tracking for donation history, request status, and profile privacy.
- Developed secure full-stack architecture using React.js, Node.js, and Firebase, ensuring data integrity and user privacy.

BigSecure – RSA Encryption Simulator with Custom BigInt Logic ↗
Dec 2024 - Feb 2025

- Designed and implemented a custom BigInt class in C++ to handle large integers beyond built-in data types.
- Built a simulation of the RSA encryption algorithm using self-developed arithmetic functions (addition, subtraction, multiplication, modulus, and exponentiation) for large numbers.
- Created a simple CLI-based encryption-decryption tool that accepts large plaintext numbers and outputs encrypted/decrypted data using RSA.
- Gained in-depth understanding of modular arithmetic, number theory, and public-key cryptography.

BOT Project ↗
Oct 2024 - Nov 2024

- Bot Project is an AI-powered chatbot designed for seamless user interactions, leveraging NLP and API integrations for accurate and efficient responses.
- Built with a scalable modular architecture, it ensures smooth automation and optimized performance.

- Technologies Used: AI, NLP, Python, API Integration

Created interactive web site ↗
Aug 2024 - Oct 2024

- Interactive Food Ordering Website:

  Developed an engaging and user-friendly food ordering website using HTML, CSS, and JavaScript.
- This platform allows real users to browse menus, customize their orders, and seamlessly place orders online.
- The responsive design ensures a smooth experience across all devices, while dynamic elements enhance interactivity.
- Key features include real-time order tracking, secure payment integration, and user account management, providing an efficient and enjoyable online ordering experience.

Landing page ↗
Jun 2024 - Aug 2024

- E-book Landing Page

- Developed a visually appealing landing page for an e-book, utilizing HTML, CSS, and JavaScript to create an engaging user interface.
- The page features a responsive design, ensuring it looks great on all devices, from desktops to mobile phones.
- Key highlights include sleek animations, intuitive navigation, and eye-catching visuals, all designed to captivate visitors and enhance their browsing experience.

To Do Website ↗
Aug 2024 - Sep 2024

- To-Do Web:

- This is a simple and elegant To-Do Web application built using HTML, CSS, and JavaScript.
- The application allows users to efficiently manage their tasks by adding, editing, marking tasks as complete, and deleting them.
- It features a clean and intuitive interface, making it easy for users to keep track of both completed and uncompleted tasks.
- The application's responsive design ensures a seamless experience across all devices.

SKILLS

- Python
- English Proficiency (Spoken)
- Data Science
- Power BI
- Data Analytics
- Design Thinking
- Artificial intelligence
- MySQL
- Deep Learning
- Data Structures

- Effective Communication
- English Proficiency (Written)
- Statistical Modeling
- Microsoft Project
- Data Analysis
- Google Analytics
- Computer Vision
- PostgreSQL
- Research and Analytics

- MS-Excel
- SQL
- Tableau
- MS-PowerPoint
- Report Writing
- Machine Learning
- Neural Networks
- MS SQL Server
- Market research

EXTRA CURRICULAR ACTIVITIES

- Participated in the AI Agent Hackathon and secured 4th rank, actively contributing to project development and team collaboration.

ADDITIONAL DETAILS

- Member of Coding Club at BBD university – contributed to workshops, projects, and competitions. Attended webinars on AI, Software Development by industry experts.
- Built automation scripts for data cleaning and formatting, reducing manual work in practice tasks by 40%.
- Participated in Kaggle competitions to practice real-world data problems and improve ML accuracy.