

# SAHIL

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[github.com/sahil-analytics](https://github.com/sahil-analytics)

## Profile

Computer Science and Engineering graduate with a strong interest in data-driven solutions and IT technologies. I have honed my skill in the management of large datasets, dashboards designing, and predictive analytics for real-world problem-solving.

I display my projects on my portfolio at [sahilprojects.dev](https://sahilprojects.dev)

## Key Skills

**Programming & Data:** Python, SQL, Java, Excel, Power BI, Plotly, Matplotlib, Seaborn

**Data & Analytics:** Data Analysis, Data Visualization, Data Wrangling, EDA, Data Modeling, Business Intelligence, Data Presentation, Dashboard Development

**Dev Tools:** GitHub (version control, hosting), Jupyter Notebook, Deepnote

**Web & Other Tech:** HTML, CSS, JavaScript basics, Flask/Django, Generative AI

## Education

**IK Gujral Punjab Technical University**, Bachelor of Tech in Computer Science Jul 2021 – 2025

- CGPA: 6.5/10

- **Coursework:** Object Oriented Programming, Data Structures & Algorithms, Web Technologies, Operating Systems, Database Management Systems, Computer Networks, Network Security & Cryptography, Software Engineering, Artificial Intelligence, Machine Learning, Deep Learning

**Ex-Servicemen Public Higher Secondary School Thathri, (12th)** Nov 2020

- Percentage: 80%

- **Coursework:** English, Physics, Chemistry, Mathematics, Environmental Science

**Ex-Servicemen Public Higher Secondary School Thathri, (10th)** Nov 2018

- Percentage: 94%

- **Coursework:** English, Urdu, Science, Mathematics, Social Science

## Projects

### 1. Bike Shop Analysis Project

- Developed an interactive SQL-and-Excel dashboard through which a whole slew of KPIs can be tracked, ranging from sales to revenue trends to customer retention
- Came up with data modeling and visualization standards to help the decision-making process toward strategies
- Tools Used: Data Modeling, SQL Queries, Power BI, Excel Formulas, Data Visualization, Dashboard Design

### 2. Customer Behavior Analysis with PySpark

- Weekend vs. weekday buying trends and best-selling product categories
- Recognition of high-value "Champions" and "Loyal Clients" that drive business income
- Tools Used: Big Data Processing, PySpark, Python, Data Wrangling, Exploratory Data Analysis, Data Storytelling

### 3. Predictive Analytics for Sales Forecasting (Python, Machine Learning)

- Develops end-to-end sales forecasting pipeline that is highly accurate in projecting sales trends through ensemble techniques, automatic feature engineering, and model selection.
- Offers fact-based information via visual reports to facilitate strategic business planning and simple results interpretation.
- Tools Used: Python, Pandas, Matplotlib, Data Transformation, Exploratory Data Analysis, Predictive Modeling

#### 4. Generative AI Chatbot for Customer Support (Python, OpenAI API)

- Developed a chatbot using Generative AI to help automate customer support questions and develop business insights
- Faster response time and enhanced user experience using real-time automated support
- Tools Used: Generative AI, Python, API Integration, Data Sharing, Data Storytelling

#### 5. Personal Finance Manager

- Created and developed a full-stack web application to manage personal finances.
- Built transaction categorization, monthly/yearly summaries, and spending visualization using pie charts.
- Tools Used: Java, Spring Boot, Spring Data JPA, MySQL, HTML5, CSS3, JavaScript, Chart.js

### Technologies

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**Languages:** Python, Java, SQL, HTML, CSS

**Technologies:** Power BI, Microsoft Excel (Advanced Formulas, Pivot Tables, Dashboarding), PySpark, Hadoop, Matplotlib, Plotly, Seaborn, MySQL, Generative AI (OpenAI API), Flask/Django

### Certifications

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- **International English Language Testing System (IELTS) Certificate**
- **IBM – Data Analyst Professional Certificate 2025**
- **Coding Ninjas - Java and Data Structure Certificate 2023**
- **Core Java Programming with Database – Technical Training Program (5<sup>th</sup> Semester, College)**

### Languages

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English - Upper Intermediate (Listening - 7, Reading - 6.5, Writing - 6.5, Speaking - 6)

Hindi - Native

### Extracurricular Activities

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- **Campus Ambassador** for *Coding Ninjas*.
- **Cultural Coordinator** from my department.
- Played a role in a **Science Play** organized by the university in collaboration with the *Punjab Energy Development Agency*.
- Took part in **Annual Training Camp** and earned '**A** **Certificate**' under 1 J&K Artillery Boys NCC Unit.
- Participated in **Paryavaran Ratna Award** examination conducted by the *Indian Centre for Wildlife and Environmental Studies, South Asia Region*.
- Participated in a **Science Exhibition** at school level.