

# SAHIL

Jammu, India | [sahil.contact13@gmail.com](mailto:sahil.contact13@gmail.com) | +91 7780826654 | [sahilprojects.dev](https://sahilprojects.dev) | [linkedin.com/in/sahil1304](https://linkedin.com/in/sahil1304)  
[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

**Business Intelligence Dashboard (Power BI, SQL, Excel)**

- Created an interactive dashboard based on Excel and SQL databases to monitor KPIs like sales, revenue trends, and customer retention
- Implemented data modeling and visualization concepts to aid strategic decision-making
- Tools Used: Data Modeling, SQL Queries, Power BI, Excel Formulas, Data Visualization, Dashboard Design

**Big Data Analysis with PySpark (Python, Hadoop/Spark)**

- Used a large dataset using PySpark to determine trends and patterns in customer behavior
- Improved efficiency of large-scale data processing by using distributed computing
- Tools Used: Big Data Processing, PySpark, Python, Data Wrangling, Exploratory Data Analysis, Data Storytelling

**Predictive Analytics for Sales Forecasting (Python, Machine Learning)**

- Created a predictive model to predict sales trends using Python libraries
- Improved forecasting accuracy and delivered data-driven insights for business planning
- Tools Used: Python (Pandas, Scikit-learn, Matplotlib), Data Transformation, Exploratory Data Analysis, Predictive Modeling

### 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

### Database Management System (Java, MySQL)

- Created and developed database-driven system to store student records
- Enhanced data storage, retrieval, and report efficiency using SQL queries
- Tools Used: Java, MySQL, Database Design, SQL Queries, Data Import/Export, Data Management

## 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 - IELTS: 6.5 Overall (Listening - 7, Reading - 6.5, Writing - 6.5, Speaking - 6)

Hindi - Native

## Extracurricular Activities

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- **Campus Ambassador** for *Coding Ninjas*.
- Participated in a college **Wall Painting Competition**.
- 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.