







AYUSH KUMAR SINHA

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 /ayushkr15  /Ayushkr15  Portfolio 

EDUCATION

Chandigarh University, Mohali

2021 – 2025

Bachelor of Engineering in Computer Science (B.E)

Related courses: Object Oriented Programming, Databases, Data Structures, Software Engineering

ST. Karen's Secondary School, Patna

Intermediate

2020 – 2021







Matriculation

2018 – 2019




TECHNICAL KNOWLEDGE

- **STRONGEST AREA:** Data engineering, scalable software design, data analysis and advanced data structures.
- **LANGUAGES & TECH:** C++, Python, SQL, Bootstrap, Git, GitHub, Data engineering (ETL, Snowflake, Data Warehouse) Data Analysis (Pandas, NumPy, Matplotlib), Data Modeling, Predictive Analytics, Linux, Microsoft Excel, WordPress, Data Structures, Algorithms, OOP, API Integration, Business Intelligence (Power BI, IBM Cognos), Cloud Computing (AWS).



PROJECTS

1. **Weather Forecast Data Pipeline** GitHub  Live 
 - Built a weather forecast data pipeline which extracts data from yahoo weather api and transforms data
 - Wrote lambda function and build a flexible, cost-efficient, and highly scalable, architecture
 - Presented the final data in the form of visuals and charts to the end user.
2. **Reddit Drug Trends Analysis and Insights Dashboard** GitHub 
 - Extracted and analyzed data from 10+ drug-related subreddits, uncovering trends and patterns across 94,085 posts.
 - Identified the most popular subreddit and tracked engagement metrics such as post scores and upvotes ratio.
 - Built a Power BI dashboard to visualize social media trends, improving decision-making for data-driven campaigns.
3. **Russ Api** GitHub  Live 
 - Designed an API providing up-to-date coverage on the Ukraine conflict, enabling real-time access to trusted news.
 - Streamlined API integration with comprehensive documentation, reducing integration time for developers by 40%.
 - Maintained high API uptime, ensuring uninterrupted access for users.
4. **Real Time Data Streaming using Apache Nifi AWS Snowpipe Stream Task** GitHub 
 - Designed a real-time data pipeline using Snowflake, AWS S3, and Apache NiFi for seamless data ingestion and processing.
 - Implemented SCD Type 1 & 2 to manage historical and current data, ensuring accurate tracking and updates.
 - Automated workflows with Snowpipe and Tasks, enabling efficient data synchronization and real-time analytics.




PUBLICATION

- Traffic Road Accident Prevention Using Machine Learning GitHub  Research Paper 
- Coronary heart disease at the tertiary care hospital Research Paper 

CODING PROFILE

- Leetcode/Ayushkr15  (195+ questions solved)
- HackerRank/ayushkr15  (3-star CPP, 4-star Python, 3-star SQL)

ACHIEVEMENTS

- 2nd rank in Drone racing in CELESTA 
- Certified in IBM Data Analysis 
- Successfully contributed to open source (October fest). 
- Postman Student Expert 