# Anushka Tyagi

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## Education

| VIT Bhopal University | August 2021 – August 2024 |
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*B.Tech CSE specialization in AIML -  CGPA- 8.56*

| St. Ann's Senior Secondary School | March 2019 – March 2020 |
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*12th CBSE Board -  Percentage – 72.8%*

| St. Ann's Senior Secondary School | |
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*10th CBSE Board -  Percentage – 86.8%*          **March 2017 – March 2018**

## Technical Skills

**Languages and Databases:** Python, C++, SQL, MySQL
**Tools/Technologies:** NumPy, Pandas, LLM, Langchain, GenAI
**Other Skills**: Deep Learning, Machine Learning
**Certifications:** AWS cloud practitioner, Oracle AI Vector Search Professional (ongoing)

## Work Experience

| Software Engineering Intern: Apperture | March 2024 –May 2024 |
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- Spearheaded the integration of data endpoints using Kafka queues, optimizing message handling and reducing data processing times by 20%, while coordinating cross-functional teams to ensure seamless implementation.
- Led the development of 10+ Metabase dashboards, collaborating with stakeholders to execute SQL queries and deliver actionable insights, enabling real-time KPI monitoring and strategic decision-making.

## Projects

| DBTalk - *Python, Gemini API, MySQL, Chroma DB, Huggingface* | March 2025 –April 2025 |
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- Developed an AI-powered system that enables over 100 non-technical users to input natural language queries, converting them into accurate SQL statements, simplifying database interactions.
- Implemented schema-aware query generation using Gemini 2.0, adapting to different database structures and improving SQL output precision by 40%.
- Enhanced query accuracy with Chroma DB and HuggingFace embeddings, leveraging 10+ few-shot learning examples to improve the system's responses based on user input and historical examples.

| Collab Code - *JavaScript, React, ExpressJS, MongoDB, Gemini API* | January 2025 –March 2024 |
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- Implemented a real-time collaborative platform where users can create, manage, and collaborate on code files. Users can add, update project file structures, and communicate in real-time.
- Boosted productivity by 30% and reduced development time by 20% through AI-driven assistance, streamlining workflows and minimizing manual effort.
- Integrated Google Generative AI to generate code snippets and project structures from user prompts, speeding up development with tailored solutions.

| Bank Data Prediction and Analysis - *Python, ScikitLearn, Pandas, Matplotlib, Numpy* | June 2024 –July 2024 |
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- Conducted exploratory data analysis (EDA) on a dataset of over 5,000 bank customers, uncovering significant trends and patterns in customer demographics, and transaction history.
- Segmented insights based on customer demographics, behavior, and geography, enabling the bank to prioritize high-risk groups and strategize retention efforts effectively.
- Implemented a robust evaluation pipeline to train and compare the performance of 8 machine learning models, like Logistic Regression, KNN, Decision Trees, XGBoost, LightGBM etc. Performed hyperparameter tuning on the best performing models.

## Leadership / Extracurricular

- Facilitated clear and concise discussions during project meetings and presentations.
- Resolved team conflicts by promoting mutual understanding and collaboration, leading to increased team.