

# SANJEET BENIWAL

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## EDUCATION

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### Indian Institute of Information Technology Allahabad

*Btech - Information Technology CGPA - 8.31*

2020-24

### Cambridge Public School, Hisar

*CBSE Class 12: 86%*

2019

### St. Mary's School, Hisar

*CBSE Class 10: 10 CGPA*

2017

## TECHNICAL SKILLS

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**Tech Stack:** MySQL, Python, PySpark, Databricks, PostgreSQL, Google Cloud Platform (BigQuery, Composer, Data Fusion etc), C++

**Relevant Coursework:** Data Structures and Algorithms, Operating System, Database Management System, Object Oriented Methodologies, Deep Learning, Machine Learning, Computer Vision.

## PAST EXPERIENCE

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### Analytics Engineer, Forma.AI (6 month internship + FTE)

*Jan 2024 - Oct 2024*

- **Tech Stack:** Python, PySpark, PostgreSQL, Databricks, AWS (EC2 instances, S3, Secrets Manager), Docker, Github, Fivetran, DataDog.
- Worked with diverse datasets and created and maintained ETL pipelines.
- Created data visualizations and analytics dashboards to support data-driven decision-making.
- Collaborated cross-functionally to identify data needs and deliver insights aligned with business objectives.

## PROJECTS

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### Image Captioning 🔄

- Technologies used: Deep Learning, CNN, **LSTM**, **ResNet50**, **VGG16**, **VGG19**, **BLEU score**.
- Dataset used: A set of 1500 images with 5 captions per image from **FLickr8k** dataset were used to train the models. Another set of 500 images were used for testing.
- Employed **BLEU score** as an evaluation metric to assess the quality of generated captions across various encoders, resulting in respective scores of **0.61** for ResNet50, **0.57** for VGG16, and **0.61** for VGG19.

### AI Driven Snake Game

- Technologies used: **Reinforcement learning**, **DQN algorithm**, Python 3.10, Turtle, Gym.
- Applied DQN to train an agent to play the Snake game proficiently.
- The agent reaches a maximum score of 50 because of the limited environment information.
- Scope of improvement: The environment information can be given using a CNN encoder, which will provide more information about the environment.

## ACHIEVEMENTS

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- JEE Mains Rank -**4628**/1M+
- Zonal Rank - **57** IMO (Class 10)