

# Yagyam B Aggarwal

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## EDUCATION

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**Dr. Akhilesh Das Gupta Institute of Professional Studies**

*Bachelor's of Technology in Computer Science and Engineering*

New Delhi, Shastri Park

*Aug. 2023 – June 2027*

**St. Xavier's School**

*High School*

Delhi, Rohini

*2020 - 2022*

## EXPERIENCE

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**Web Development Intern [*HTML/CSS, JavaScript, Leadership*]**

September 2024 – January 2025

*Gao Tek*

*Remote*

- Worked on and maintained the company's site.
- Suggested engaging ways for the product's page on the site.
- Learned to meet the deadlines.
- Learned to work with the team efficiently on a big scale professional website.
- Later was promoted to team leader.
- As team lead, main responsibility was to communicate the work to the new interns and assure timely submissions.
- Also worked in digital marketing where I explored Quora as a platform for marketing and blog posts.

## PROJECTS

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**Guess Dog Breed [*Python, NumPy, Pandas, Seaborn, TensorFlow 2, Keras*]**

July 2025 – August 2025

- Developed an end to end working **deep learning (CNN based)** model for the prediction of dog's breed from the given image.
- Worked with **20,000+** images across **120** breeds of dogs.
- Built **TensorFlow** datasets, created train/valid/test splits, and set up efficient input pipelines for images.
- Used a **pretrained CNN (ImageNet)** and fine-tuned it for dog breeds to get strong results with less data and compute.
- *Reduced redundancy* in code by using **pipelines**.
- Did *exploratory data analysis (EDA)* and visualized the results using graphs and images.
- Got **multi-class log loss of less than 3** when submitted on *Kaggle*.

**Blue Book for Bulldozers [*Python, NumPy, Pandas, Matplotlib, Seaborn, scikit-learn*]**

July 2025 – August 2025

- Developed an end to end machine learning model for predicting the sale price of bulldozers sold at auctions.
- Used **one hot encoder** for encoding, imputed missing values and *enriched time-series data*.
- Visualized the results for each model's accuracy using **matplotlib**.
- Used the advanced model like **XGBoost** because of *large data*.
- Used **RandomizedSearchCV** to hypertune the best model.

**Classification on a Bank Dataset [*Python, NumPy, Pandas, Matplotlib, scikit-learn*]**

July 2025 – August 2025

- Developed an end to end machine learning model for predicting whether a client will subscribe to a bank term deposit.
- Tremendously did *exploratory data analysis (EDA)* to find out only the best suited features out of the given 18 features.
- Managed to train the model on about half of the training data that *saved time and compute power*.
- Tried multiple models from basic **logistic regression** to advanced models like **CatBoost**.
- Visualized the results for each model's accuracy using **matplotlib**.
- Used **RandomizedSearchCV** to hypertune the best model.
- Published the result on Kaggle and achieved score of **0.97797** out of 1

## TECHNICAL SKILLS

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**Languages:** Java, Python 3, JavaScript, HTML/CSS

**Frameworks:** TensorFlow 2, Keras, scikit-learn, Node.js

**Developer Tools:** Jupyter Notebooks, VS code, IntelliJ, Anaconda, Git, GitHub, Colab, Kaggle

**Libraries:** pandas, NumPy, Matplotlib, Seaborn, TensorFlow Hub

**Courses and Certificates:** *Complete A.I. and Machine Learning, Data Science Bootcamp by ZTM (Udemy)*