PROMA SINGHA

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PROFILE

Analytical and detail-driven Data Science undergraduate passionate about transforming data into actionable insights. Skilled in Python, SQL, and Machine Learning, with hands-on experience in building predictive models and CNN-based image recognition systems. Strong foundation in data preprocessing, statistical analysis, and visualization. Adept at solving real-world problems through a combination of structured thinking, data-driven decision-making, and teamwork.

SKILLS

Programming: Python, SQL, Java, R

Data Science & ML: Regression Models, CNN, Predictive Analytics, Optimization Techniques

Tools & Platforms: Power BI, MS Excel, Google Colab, Jupyter, Kaggle

Soft Skills: Analytical Thinking, Problem Solving, Team Collaboration, Communication

PROJECT

CNN-Based Recognition of Darknet CAPTCHA Images | *Mount Carmel College, Bangalore*
Tools: Python, TensorFlow/Keras, OpenCV, NumPy, Pandas

Built and trained a CNN model on ~5,000 CAPTCHA images from Kaggle to identify alphanumeric text.

Implemented preprocessing (grayscale, normalization) and achieved strong per-character accuracy.

Highlighted vulnerabilities in CAPTCHA systems, emphasizing the need for AI-resistant security mechanisms.

EDUCATION

Mount carmel college	**Bangalore**
BSC Data Science	2023-2026
GD Birla centre for education	**Calcutta**
XII (ISC)	2021-2023
Welland Gould Smith	**Calcutta**
X(ICSE)	2015-2021

EDUCATION

Campus Ambassador E-Cell IIT Bombay(IIT Bombay**)**

Power BI Data Modelling (simplilearn**)**

LANGUAGES

HINDI   ENGLISH   GERMAN