

# SNEHA GHOSH

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## OVERVIEW

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As a final-year B.Tech student, I am actively expanding my expertise in machine learning, deep learning, and artificial intelligence. I have a keen interest in continuously learning and enhancing my technological knowledge. Passionate about leveraging these cutting-edge technologies to solve real-world problems, I am eager to apply my skills and contribute to innovative projects in the tech industry. My academic journey, coupled with hands-on experience, has equipped me with a solid understanding of data science concepts and their practical applications.

## EDUCATION

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<b>College of Engineering and Management, Kolaghat</b>	<i>2021- 2025</i>
Bachelor of Technology	CGPA: 8.14
Department of Information Technology	
<b>Kendriya Vidyalaya Ranaghat</b>	<i>2021- 2025</i>
Class XII	Percentage: 87.4
Science	
<b>Kendriya Vidyalaya Ranaghat</b>	<i>2021- 2025</i>
Class X	Percentage: 85.8
Science	

## SKILLS

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**Technical Skills** : Python, SQL, Statistics, Probability, Linear Algebra, Calculus

**Technical Tools** : Excel, Numpy, Pandas, Matplotlib, Scipy(Beginner), statsmodels(Beginner), Seaborn, Tensorflow, Keras

**Soft Skills** : Adaptability, Growth Mindset, Open to feedbacks, Communication Skills

## PROJECTS

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### **Movies Recommendation System**, *Personal Project*

- Performed data cleaning and aggregation along with analysis of quantitative and qualitative insights.
- Conducted data visualization to detect patterns in data.
- Vectorized the text data using `CountVectorizer`.
- Applied the `nltk` library and `PorterStemmer` class for word stemming.
- Used the `cosine_similarity` function to calculate similarities.
- Built a function to recommend movies.

### **Car Price Predictor**, *Personal Project*

- Performed data cleaning and aggregation along with analysis of quantitative and qualitative insights.
- Conducted data visualization to detect patterns in data.
- Changed data types and removed null values as well as garbage data.
- Built a linear regression model.

### **SMS Spam Classifier**, *Personal Project*

- Performed data cleaning .
- Conducted data visualization to detect patterns in data.
- Changed data types and removed null values as well as garbage data.
- Tokenized the data using `nltk` library.

- Stem the data using `PorterStemmer` class for word stemming.
- Removed Stopwords,Punctuation and Special Characters by building a function
- Used `Bag of words` and built a `Naive Bayes` model
- Calculated metrics like `accuracy`, `Precision` and `Confusion matrix` and improved the model

### **Olympic Analysis**, *Personal Project*

- Performed data cleaning .
- Conducted data visualization to detect patterns in data.
- Changed data types and removed null values as well as garbage data.
- Created three sections of `Medal tally`, `Overall Analysis`, `Country wise Analysis`

### **Cat Dog Classification**, *Personal Ongoing Project*

- Used Tensorflow and Keras library.
- Normalized the image data.
- Created a `CNN` model and flattened it.
- Compiled and executed the model.
- Plotted graph of `training accuracy` and `validation accuracy`.
- Reduced the overfitting and tested the model.