

# Akanksha Sharma

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## Objective:

To work in an innovative and challenging environment where the acquired skill can find the best usage and new skills get a better chance to be developed.

## Project Experience:

1. **Deep Learning for EEG Analysis** (currently working)
  - Applied deep learning techniques to analyze EEG data.
  - Reconstructed images viewed by a person using EEG signals.
2. **EEG-based Auditory Attention Detection (Deep Learning Approach)**
  - Utilized low-parametric deep learning techniques for auditory attention detection.
  - Processed raw EEG signals to extract relevant features.
3. **Classification of EEG Signals (Epileptic vs. Non-epileptic Seizures)**
  - Processed raw EEG signals and created a new dataset.
  - Implemented classification algorithms for seizure detection.
4. **Generating a Decision Tree using Python (Data Preprocessing and Classification)**
  - Developed a decision tree model in Python.
  - Conducted data preprocessing to enhance model performance.

## Technical Expertise:

- **Languages:** Python (Advanced), C, C++, SQL
- **Tools/Frameworks:** Tensorflow, Numpy, Matplotlib, Pandas, Keras, Scikit-learn
- Hypothesis Testing
- Statistics
- **Machine Learning:** Completed Machine Learning course from Stanford University through Coursera.

## Strengths:

- Highly motivated and optimistic.
- Strong leadership qualities.
- Creativity and a passion for learning.
- Adaptability and confidence.
- Excellent communication and presentation skills.
- Effective teamwork and individual contributor.
- Motivational skills.

## Education:

- M.Tech in Communications and Signal Processing from Indian Institute of Technology (IIT) Mandi with a CGPA of 8.06 (Pursuing, 2022 - Present)
  - Relevant Courses: Probability and Random Process, Matrix Theory, Pattern Recognition, Digital Image Processing, Deep Learning and its Application, Applied Optimization, Computer Vision, Personal Finance Management and Portfolio

- B.Tech in Electronics and Communication Engineering (ECE) from Bhagwan Parshuram Institute of Technology, Indraprastha University with a score of 89.5% (2017 - 2021)
- 12th Grade from CBSE with a score of 82% (2016 - 2017)
- 10th Grade from CBSE with a CGPA of 9 (2014 - 2015)

**Achievements:**

- Served as an anchor for various events.
- Participated in debate competitions.
- Achieved victory in kho-kho at the school level.