Trisha Pal

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EDUCATION

Institution	Qualification	Year	Performance
Neotia Institute of Technology Management and Science, Diamond Harbour	B.Tech in Computer Science and Engineering	2025	8.32 (6th sem)
Ranghat Anchal High School	Higher Secondary	2021	89%
Ranghat Anchal High School	Secondary	2019	86%

SKILLS

- **Programming Languages:** Python, C, Java, SQL
- **Libraries/Frameworks:** Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy
- **Data Visualization:** Microsoft Power BI, Matplotlib
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Reinforcement Learning
- **Deep Learning:** Perceptrons, MLP, ANN, CNN, RNN, LSTM
- **Data Analytics:** EDA, Statistical Analysis, Feature Engineering
- **Software Development:** HTML, CSS, JavaScript, API Development, Git
- **Mathematics:** Probability, Statistics, Linear Algebra
- **Soft Skills:** Team collaboration, Critical thinking, Communication, Time management, Adaptability

TRAINING AND INTERNSHIPS

Machine Learning Intern *July-August 2023*
Exposys Data Labs

- Built a model to predict diabetes from patient data using Python and machine learning techniques with 92% accuracy.
- Processed and analyzed datasets with Pandas and Scikit-Learn, optimizing code to reduce analysis time by 25%.
- Created over 10 visualizations to interpret data insights using Seaborn and Matplotlib.

Data Analyst Intern *August-September 2023*
Edulyt India

- Analyzed loan and customer demographic datasets with Python.
- Made 7 visualizations and 1 presentation using Excel and Power BI to facilitate data-driven decisions.
- Created multi-sheet Excel reports for in-depth analysis, leveraging Python and Pandas for insights.

PROJECTS

Handwritten Digit Recognition

- Developed a deep learning model using PyTorch to recognize handwritten digits, achieving 94% accuracy on the MNIST dataset of 70,000 images.
- Analyzed performance using confusion matrices, achieving 92% precision and 91% recall on the test set of 10,000 images.

Personal Portfolio Website

- Designed a responsive portfolio website with 5 interactive sections using HTML, CSS, and JavaScript to showcase 8 key projects and technical skills.
- Integrated a dynamic contact form, enabling users to connect via email directly through the website, with over 15 inquiries received.

Fashion Recommender System

- Built a Streamlit-based content recommender system that processed over 500,000 fashion images, providing personalized clothing suggestions.
- Used ResNet50 for feature extraction, achieving a feature vector size reduction from 2,048 to 128 dimensions for efficient similarity computation.

CERTIFICATIONS

- **NPTEL** - Introduction to Machine Learning - IITKGP *2023*
- **Coursera** - Natural Language Processing in Microsoft Azure *2023*
- **NPTEL** - Deep Learning *2023*
- **NPTEL** - Data Science for Engineers *2024*

HOBBIES

Photography, Videography, Editing, Writing, Reading