

PARNEET KAUR SANDHU

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EDUCATION

Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda

Aug 2021 – June 2025

Bachelors of Technology in Computer Science and Engineering

CGPA:8.59

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C, SQL, Matlab

Tools: Jupyter Notebook, VS Code, Git/Github, Docker, Optuna

Frameworks and Libraries: TensorFlow, Transformers, Scikit, Pandas, PyTorch, Pygame, Spacy, Matplotlib, Seaborn

Web Technologies: HTML, CSS, JavaScript, Django, Flask

Data Science: Web Scraping, Model Training, Machine Learning, Data Cleaning, Data Analysis, Data Visualization, Natural Language Processing (NLP), Geospatial Analysis, Deep Learning, Large Language Models

WORK EXPERIENCE

Dosh.ai, New Delhi

June 2024 – July 2024

Data Science Intern

- Web Scraping the Data using Beautiful Soup and conducted data preprocessing and transformation to ensure data quality.
- Developed predictive models using machine learning algorithms and Optuna for hyperparameter tuning.
- Performed exploratory data analysis (EDA) and presented findings through visual reports and dashboards.
- Implemented natural language processing (NLP) techniques using Spacy for a multi-class classification project.

Technopedia Solutions Pvt Ltd, Bathinda

June 2023 – July 2023

Python Developer, Intern

- Developed and maintained Python scripts for automating data processing and analysis tasks.
- Collaborated with senior developers to design, implement, and test new features and functionalities for web applications.
- Debugged and resolved software issues, improving the performance and reliability of applications.
- Assisted in the integration of third-party APIs to enhance application capabilities.

PROJECTS

Egyptian-Hieroglyphs | [Github](#)

2024

- The digitization, recognition, and analysis of Egyptian hieroglyphs using machine learning. I have separated the images of hieroglyphs and trained, tested, and validated these images for pattern recognition.

FarmTech | [Github](#)

2024

- Using Machine Learning Algorithm for predicting the most suitable crop to grow based on environmental factors such as nitrogen levels, phosphorus levels, potassium levels, temperature, humidity, rainfall, and pH. The prediction model is deployed as a web application using Flask for the backend and HTML/CSS for the frontend.

OPD System | [Github](#)

2023

- Using Python with MySQL serving as the backend database. The OPD project is designed to facilitate the management of outpatient department operations within a healthcare facility.

Minesweeper | [Github](#)

2022

- Created a Minesweeper game using Python and libraries like Pygame to bring this timeless game to life. The challenge lies in using logic and deduction to determine the locations of mines based on the numbers revealed in adjacent squares.

ACHIEVEMENTS

- In Kaggle Competition Natural Language Processing with Disaster Tweets, I achieved Rank 15 with 0.87618 accuracy.
- During my Data Science Internship at Dosh.ai, I become the intern of the month and secured the Certificate.