

# PARNEET KAUR SANDHU

parneetsandhu20003@gmail.com | 77174-77651 | Bathinda, Punjab | Github | LinkedIn

## EDUCATION

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

**Aug 2021 – Jun 2025**

*Bachelors of Technology in Computer Science and Engineering*

*CGPA:8.63*

**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Database Management Systems, Data Mining, Operating Systems, Artificial Intelligence, Soft Computing, Object Oriented Programming, Theory of Computation, Computer Networks

## 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**

**Jun 2024 – Jul 2024**

*Data Science Intern*

- Web Scraped and preprocessed over 10,000 data points using BeautifulSoup, ensured 95% data quality for analysis.
- Developed predictive models with 90% accuracy by implementing machine learning algorithms and optimizing hyperparameters using Optuna.
- Applied NLP techniques with Spacy for a multi-class classification project, achieving 85% accuracy in predicting labels.
- Collaborated with a team of 5 to implement and fine-tune machine learning models, contributing to a 20% improvement in overall prediction accuracy.
- Presented weekly progress reports to senior management, effectively communicating technical concepts to non-technical stakeholders.

**Technopedia Solutions Pvt Ltd, Bathinda**

**Jun 2023 –Jul 2023**

*Python Developer, Intern*

- Automated data processing and analysis tasks, reducing manual workload by 30% with efficient Python scripts.
- Conceptualized and executed new web application features such as Flask/Django, Boosting user engagement by 15%.
- Executed python projects using MySQL for backend data management; facilitating the handling of over 500,000 data records.

## PROJECTS

**Egyptian-Hieroglyphs | Github**

**Jun 2024**

- Digitized, recognized, and analyzed 5,000+ Egyptian hieroglyph images using machine learning, achieving an 85% accuracy in pattern recognition after training, testing, and validating the models.

**FarmTech | Github**

**Apr 2024**

- Developed a machine learning model to predict the most suitable crop with 90% accuracy, based on 7 key environmental factors. Deployed the model as a web application.

**OPD System | Github**

**Jul 2023**

- Using Python with MySQL serving as the backend database. Designed and implemented an OPD system to facilitate the management of outpatient department reducing administrative workload by 30%.

**Minesweeper | Github**

**Dec 2022**

- Built a Minesweeper game using Python and Pygame, emphasizing advanced logic and deduction algorithms to identify mine locations based on adjacent numbers

## ACHIEVEMENTS

- In Kaggle Competition Natural Language Processing with Disaster Tweets, achieved Rank 15 with 0.87618 accuracy.
- Achieved recognition as Intern of the Month for delivering a predictive analytics project that increased forecasting accuracy by 25% and was selected for presentation to the senior management team.