

PARNEET KAUR SANDHU

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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: 7.74

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, Colab, Kaggle

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

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, Computer Vision

WORK EXPERIENCE

Phia, New York, NY

Sep 2024 – Present

Product Evaluator (Remote)

- Evaluated and analyzed the performance of Phia products; testing their beta identifying areas for improvement and optimization.

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

Virtual Try-On | [Github](#)

Nov 2024

- Developed a virtual try-on using MediaPipe, OpenCV, and Tkinter, allowing users to try on accessories in real time and achieving a 92% satisfaction rate in user tests.

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.