Arpit Negi

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EDUCATION

Ambedkar DSEU Shakarpur Campus-I
New Delhi, Delhi
Bachelor of Computer Applications (CGPA: 9.6/10)
Nov. 2021 – July 2024

SSLT Gujarat Senior Secondary School
New Delhi, Delhi, 110054
Grade 12 (Percentage: 96.8%)
2019 – 2021

EXPERIENCE

Research Assistant
January 2024 – March 2024
Ambedkar DSEU Shakarpur Campus-I
New Delhi, Delhi, India

- Conducted advanced research on breast cancer diagnosis using a range of machine learning algorithms applied to the WDBC dataset.
- Implemented and rigorously compared the effectiveness of Logistic Regression, Decision Tree, and Random Forest techniques.
- Achieved a 97% accuracy rate with Logistic Regression, surpassing other models in precision, recall, and F1-score, thereby demonstrating its superior performance.

Social Media Head
September 2023 – December 2023
GDSC Ambedkar DSEU Shakarpur Campus-1
New Delhi, Delhi, India

- Developed and executed strategic social media campaigns, boosting brand engagement by 40% across multiple platforms.
- Oversaw content creation and community management, ensuring high levels of follower engagement and interaction.

PROJECTS

Pink Paradox | *Python, HTML, CSS, JS, Flask, Flask-SQLAlchemy, PythonAnywhere*   September 2023 – Present

- Developed a secure and interactive blogging platform dedicated to supporting individuals and community affected by breast cancer.
- Implemented user-generated content features to foster community engagement, including secure login, article liking, and commenting.
- Integrated advanced security measures to protect user data and ensure privacy, enhancing the overall user experience.

Dr Semmelweis Handwashing Discovery | *Pandas, Plotly, Seaborn, NumPy*   September 2023 – October 2023

- Analyzed the impact of handwashing on reducing maternal mortality rates at Vienna General Hospital in the 1840s, demonstrating a significant decline from 10.5% to 2.1% post-intervention.
- Created detailed visualizations using Plotly and Seaborn, including line graphs to illustrate birth and death patterns across two clinics and histograms with KDE for monthly distributions.
- Calculated average maternal death rates and proportions per clinic, highlighting a 4.89-fold reduction in death rate following the handwashing intervention.
- Conducted t-test analysis to confirm the statistically significant relationship between handwashing and decreased mortality rates.

ASL Game (Helping Hand) | *Python, Tkinter, Pandas, Database*   June 2023 – July 2023

- Developed an educational flash card game in Python using Tkinter to teach American Sign Language through interactive activities.
- Engineered and maintained a robust database of ASL signs and corresponding words using the Pandas library, ensuring comprehensive learning resources.

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, HTML/CSS, Solidity
Frameworks: React, Node.js, Express.js, Flask, Tkinter
Developer Tools: Git, VS Code, PyCharm, IntelliJ, Sublime
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, turtle graphics, Beautiful Soup, Scikit-Learn, Selenium