Gurpreet Sanjay Kukkar
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EDUCATION

Bachelor of Engineering, Computer Engineering **August'19 - July'23**
Dr. D. Y. Patil Institute of Technology, Savitribai Phule Pune University (SPPU), Pune. **CGPA: 8.74/10**

Relevant Coursework: Artificial Intelligence, System Programming and Operating Systems, Data Structures and Algorithm, Object Oriented Programming, Discrete Mathematics, Database Management System, Computer Graphics, Theory of Computation, Machine Learning, Design and Analysis of Algorithm, High-Performance Computing, Computer Networks and Security, Software Defined Networks, Deep Learning, Data Science and Big Data Analytics, Blockchain technology.

TECHNICAL SKILLS

- Python
- Tableau
- SQL
- HTML
- JavaScript
- CSS

WORK EXPERIENCE

Cyber Security Intern, *Edunet Foundation* **June 12, 2023 - July 24, 2023**
During a dynamic 6-week project-based internship in cybersecurity, I gained invaluable insights into various types of threats and their identification strategies. The immersive program equipped me with a comprehensive understanding of key cybersecurity concepts. I actively contributed to a project focused on developing a keylogger using the Ticker library, enhancing my skills in threat modeling and detection

Data Analyst and Course Analytics Intern, *Acmegrade* **January 3, 2022 – February 3, 2022**
I honed my skills in Python for data manipulation, visualization, and cleaning. Successfully applying theoretical concepts to real-world scenarios, I mastered the Pandas library for efficient data handling and created impactful visualizations. Additionally, I developed proficiency in data cleaning techniques, ensuring the integrity of datasets. This experience not only deepened my understanding of Python's application in data analytics but also equipped me with valuable problem-solving skills crucial for the field.

PROJECTS

Book Recommendation System using Collaborative Filtering

- Employed Flask, HTML, CSS, and Bootstrap, this system elegantly addresses challenges like the "cold start" problem through advanced Collaborative Filtering.
- Fueled by a Kaggle dataset, it refines recommendations, conquering issues such as "grey sheep" scenarios and adapting dynamically to user preferences.
- Integration of K-means clustering enhances recommendation precision, promising a sophisticated book selection process for a personalized and unparalleled user experience.

Real-time Drowsiness Detection using CNN

- Implemented a Driver Drowsiness Detection system, utilizing a multi-level distribution model and Convolutional Neural Networks (CNN). Applied Haar Cascade for eye detection, processing over 4500 eye images from diverse sources, contributing to the model's robustness.
- The CNN architecture, utilizing Keras and TensorFlow, successfully predicts eye states for drowsiness detection. The system integrates seamlessly into vehicle dashboards, enhancing road safety with timely alerts.

CERTIFICATIONS

- Intermediate Python, DataCamp
- Google Data Analytics, Coursera
- TCS iON Career Edge- Young Professional
- Data Manipulation with Python

EXTRACURRICULAR ACTIVITIES

- A 15 Day tour across several forts in the state of Maharashtra having historical importance were cleaned.
- Tree Plantation under Pedh Bachao organized by Green Yatra
- Fundraising and collecting unused clothes for Orphanage

HOBBIES

- Volleyball, Cricket and Computer Games

PUBLICATIONS

Gurpreet Kukkar, Rohan Khandare, Syed Mushahid Ali. 'Real-time Drowsiness Detection using Convolutional Neural Network'. DOI: 10.17148/IJARCCE.2023.12736

Gurpreet Kukkar, Rohan Khandare, Syed Mushahid Ali. 'Book Recommendation System using Collaborative Filtering'. DOI:10.17148/IJARCCE.2023.12735