Shiv Kumar

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Education

National University of Computer and Emerging Sciences   September 2021 – Present
Bachelor of Science in Computer Science   *CGPA: 3.51/4.0*

Projects

OCR-Based Annotation and Document Management System | *Python, PaddleOCR, OpenCV, PyMuPdf*   **2024**
- Developed an OCR-based annotation and document management system using Python, PaddleOCR, and OpenCV.
- Implemented features for digitizing documents and extracting text from scanned documents of any format using PaddleOCR, PyMuPdf, and OpenCV.
- Designed intuitive annotation tools for highlighting and marking up documents, enhancing user interaction and productivity.
- Incorporated robust document organization functionalities for tagging, and searching documents, improving accessibility and efficiency in document management.

Animated Geometric Algorithms | *Python, Tkinter*   **2023**
- Implemented Convex Hull, Line, and Closest Pair of Points algorithms using Python and Tkinter for visualization.
- Developed animated visualizations to demonstrate the execution of these algorithms step by step.
- Utilized Tkinter for creating interactive GUIs, allowing users to visualize algorithmic processes in real-time.

E-commerce Website | *ReactJS, ExpressJS, NodeJS, MySQL*   **2023**
- Led development of e-commerce site using ReactJS, ExpressJS/NodeJS, and MySQL.
- Implemented multiple categories for users to buy items.
- Integrated promo codes functionality for discounts on purchases.
- Developed RESTful APIs for efficient client-server communication.

Food Ordering App | *Java, Android Studio*   **2022**
- Developed dynamic food ordering app with secure login, local storage, and intuitive search functionality.
- Utilized SQLite for efficient data management of user profiles, orders, and favorites.
- Integrated popular food lists for enhanced user engagement and discovery of trending items.

Bank Management System | *Java, Java Swing*   **2021**
- Developed feature-rich bank management system in Java with Java Swing for intuitive GUI.
- Implemented basic bank operations such as account creation, deposits, withdrawals, and transfers.
- Added utility bill payment and loan management functionalities.
- Utilized object-oriented programming, including inheritance, for scalability and flexibility.

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL, NoSQL
Developer Tools: VS Code, Intellij IDEA, Android Studio, PyCharm, Jupyter Notebook
Technologies/Frameworks: MERN, PyTesseract, Pandas, Numpy, sklearn, OpenCV, EasyOCR

Certifications / Achievements

- **IEEEXtreme 17.0 24 Hour Programming Competition**
  Global Rank: 724, Country Rank: 10

- **Softec'23 Programming Competition - Top 10**

- **Machine Learning Specialization - Coursera**

- **JavaScript, ReactJS, OCR, Computer Vision - Udemy**