SHUBHAM SAGAR SOLANKI

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EDUCATION

State University of New York at Binghamton, Binghamton, NY ***Aug 2023 - May 2025***
Masters of Science in Information Systems focus Applied Data Science | (GPA - 3.3/4)

Savitribai Phule Pune University, Pune, India ***Aug 2018 - Jun 2022***
Bachelor of Engineering Computer Science Engineering | (GPA - 8.34/10)

SKILLS

Languages & Backend Frameworks : Python, C, C++, Django, Flask, FastAPI, RESTful APIs
Databases & Cloud : Database Design, MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Query Optimization, AWS Services (EC2, S3, RDS), ETL Processing, Data Warehousing
Software Design & Tools : Object-Oriented Programming, Design Patterns, Tableau, Git, GitHub, VS Code, Postman, Jupyter
Machine Learning : Keras, Tensorflow, Pandas, Numpy, Seaborn, scikit-learn, Data Analysis, Data Science, Pytorch
Business : Agile, RESTful Design, Product Strategy, System Design, Artificial Intelligence, Unit Testing, Integration Testing

PROFESSIONAL EXPERIENCE

BetterEDU **Phoenix, AZ**
Software Developer Intern (Remote) **Aug 2024 - Dec 2024**

- Engineered and integrated innovative mental health features into BetterEDU, including mood tracking, crisis intervention tools, and resource directories, resulting in a 25% increase in student engagement and access to essential support resources.
- Enhanced BetterEDU app's community engagement by implementing messaging, event sharing, and forums, driving a 20% increase in active user participation through user-centered design and iterative feedback.
- Enhanced app functionality by implementing regular updates, bug fixes, and personalized notifications on BetterEDU using GitHub for continuous improvement based on feedback, resulting in a 15% decrease in app crashes and increased customer satisfaction.

AUS IT Solutions, **Pune, India**
Business Data Analyst **Nov 2022 - Jun 2023**

- Leveraged SQL, Tableau, and PowerBI to build dynamic reports and dashboards for business stakeholders, boosting efficiency and accuracy by 20%.
- Analyzed large data sets consisting of over 10 million lines to identify trends and outliers, enabling prioritization for client auditing efforts and improving overall info quality by 30%.
- Led the successful migration of reports from a third-party platform to Tableau, streamlining processes and reducing costs by 15%, while also providing training to team members on the new system.

PROJECT EXPERIENCE

Student Housing Hub - (OOP)Python and Design Patterns

- Developed an application for housing management and student support, enabling property posting, tenant management, visit scheduling, and carpooling.
- Implemented robust design patterns including Singleton, Observer, and Strategy, ensuring scalability, maintainability, and efficient code organization..
- Built an intuitive user interface using Tkinter, with SQLite integration for seamless handling of property and student-related data.

Comprehensive Health Analysis - Python and Data Mining

- Utilized cutting-edge machine learning algorithms, such as Support Vector Machines and Gradient Boosting, to improve the accuracy of sleep disorder and cardiovascular disease predictions by 10%.
- Implemented a novel data preprocessing technique that reduced model training time by 15%, allowing for faster delivery of health insights to medical professionals.
- Collaborated with cross-functional teams to integrate the machine learning initiative into existing healthcare systems, resulting in a 20% increase in early disease detection rates among patients.

Search Engine - ElasticInsight - Web Information Retrieval Search

- Developed and implemented a cutting-edge semi-RESTful system using Django, HTML, CSS, JavaScript, MongoDB, ElasticSearch, and Kibana; enhanced user interaction and search efficiency by 35%.
- Introduced innovative search term categorization and multi-keyword support features to the system; boosted search accuracy by 40% and revolutionized industry standards in search technology.
- Integrated advanced functionalities such as detailed statistical analysis into the system; set a new benchmark for search technology within the industry.

PUBLICATIONS & CERTIFICATES

- IJSRCSEIT (International Journal of Scientific Research in Computer Science Engineering and Information Technology) 'Campus Placement Prediction Using Brain.js' Volume 8 Issue 2
- Final Year Projects Competition: 'Best Working Model' by Zeal College of Engineering and Research