Shashwat Ahuja

🌐 msr8.dev   github.com/msr8   📞 +91 7683016800   ✉ shashwat.ahuja.2004@gmail.com

EDUCATION

National Forensic Sciences University   Curti, Goa (2025 - Current)
M.Sc. Cyber Security

Maharaja Surajmal Institute   New Delhi (2022 - 2025)
Bachelor of Computer Applications   *CGPA: 8.691*

New Era Public School   *Class XII Percentage: 74.8%*
New Delhi, India (2010 - 2022)   *Class X Percentage: 77%*

EXPERIENCE

Robotic Process Automation Intern   *Jul'24 – Aug'24*
Xtreme Softech   *Gurgaon, Haryana*
- Designed and implemented a **Python and .NET based** automation solution to **parse and process emails**
- Developed the bot to **automatically save email content** into separate Google Documents based on user-inputted conditions
- Integrated the bot with **UIPath** to schedule and execute the automation at predefined intervals

EXTRA-CURRICULAR COURSES/ACTIVITIES

🔗 **IBM Machine Learning Professional Certificate**
- This course included EDA, Supervised & Unsupervised Machine Learning, Deep Leaning, Reinforcement Learning, and Model Deployment

Organiser and Participant of various hackathons
- Achieved a top-15 position in a national hackathon (Code Cubicles 2.0). Also organised and hosted a hackathon at Microsoft's Gurgaon office (Hackformers)

TECHNICAL SKILLS

Skills: Machine Learning & Artificial Intelligence, Data Science & Analytics, Backend & API Development, Robotic Process Automation
Languages: Python, Bash, HTML/CSS/JS
Databases: MySQL, MongoDB
Tools: Linux, Git/Github, Docker, UIPath, Jupyter Notebook/Lab, LaTeX
Python libraries: Scikit-Learn, Tensorflow, Keras, Pandas, Numpy, Matplotlib, Flask, Flask-RESTful, Django

PROJECTS

 Synapse | Showcase | *Python, Flask, Scikit-Learn, Bayesian Optimization*
- Engineered a **full-stack real-time ML platform** enabling the automation of ML workflows
- Integrated **Bayesian Optimization** to autonomously tune hyperparameters for diverse models
- Implemented an **automated EDA pipeline** generating insightful and interactive visualizations
- Developed a **robust customisable preprocessing engine** with intelligent missing value handling, feature selection, and scaling
- Embedded an **AI chatbot** to provide data-driven insights and statistical interpretations for technical and non-technical users

 Machine Minds | Source Code | *Python, Flask, Scikit-Learn, Matplotlib, Javascript*
- Designed an **attractive game-based learning platform** for machine learning concepts
- Developed **engaging quizzes** to test the user's knowledge
- Created **interactive visualizations** to help users understand the role of hyperparameters
- Authored **user-friendly guides** on various machine learning topics
- Established a **forum** for users to seek assistance and engage with the community
- Integrated **Google OAuth** to simplify and streamline the login process

Markify | PyPI | *Python, Markov Chains, NLTK*
- Engineered a **command-line application**, Markify, leveraging Python to extract and analyze data from social media accounts
- Employed **NLTK** for meticulous data sanitization
- Demonstrated proficiency in **interfacing with a variety of APIs** (official and unofficial) to aggregate data
- Employed the use of the **markov chains** for generating new sentences
- Packaged the application for widespread use by uploading it to **PyPI**

 Spotify Recommender | DockerHub | *Python, Django, Skicit-Learn, MongoDB, Docker, HTML+CSS+JS*
- Developed a spotify scraper and a corresponding website enabling users to **receive personalized recommendations** based on Spotify track links or IDs
- Utilized a custom optimized **K-Nearest Neighbors algorithm** for recommendation generation
- Implemented **MongoDB** as the database backend for efficient data storage and flexible querying capabilities
- Containerized the web server using **Docker** for seamless deployment and execution across diverse environments
- Leveraged the Spotify API to scrape the **audio features of over 7 million songs**
- Implemented **robust error handling** within the scraper as to prevent interruptions due to errors during operation, thereby ensuring continuous operation over extended durations without interruptions
- Demonstrated adeptness in utilizing both, **official and unofficial APIs** for data acquisition
- Designed a **minimalist yet responsive frontend** interface, prioritizing usability and simplicity without unnecessary clutter