Sahil Khan

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Summary

Computer Science student with expertise in Data Science and Machine Learning. Proficient in Python, SQL, and deep learning, with experience in building models and data visualization. Focused on analyzing data and creating insights to solve real-world problems.

Education

B.Tech in Computer Science *2021 - Present*
Rajasthan Technical University, Jaipur
Current CGPA: 8.5/10

Higher Secondary Education *2019 - 2021*
AVN (Ajeet Vidhya Niketa School), Jaipur
Percentage: 94%

Technical Skills

Programming Languages: Python, SQL, C++, HTML/CSS
Data Science & Machine Learning: Statistical Analysis, Machine Learning, Deep Learning, Computer Vision, NLP
Libraries & Frameworks: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, OpenCV, NLTK
Tools & Databases: Power BI, Tableau, Git, MySQL, VS Code, Jupyter Notebook
Soft Skills: Strong Communication, Analytical & Problem-Solving, Team Collaboration

Experience

Data Analyst Intern Jaipur, Rajasthan, India
Learn and Build *Aug 2023 - Sep 2023*

- Analyzed e-commerce sales data using SQL and Python (Pandas), resulting in 25% improvement in product tracking and identifying market trends.
- Created Power BI dashboards, reducing reporting time by 30% and enabling data-driven decisions.

Projects

AI-Based Accident Damage Detection for Finance Industry

- Achieved a 94% precision score in vehicle damage detection using a YOLO model, trained on over 16,000 images.
- Designed an automated system for accurate vehicle condition assessment, reducing repair cost estimation errors.
- Enabled remote damage assessment, expediting insurance claim processing and improving incident investigation efficiency.

Personalized Movie Recommendation System

- Built a recommendation engine combining content-based and collaborative filtering to enhance user experience.
- Improved recommendation accuracy by 12% through hybrid filtering, providing relevant movie suggestions.
- Leveraged user feedback and matrix factorization to increase personalization.

Predicting Customer Churn for Telecom Company

- Developed a machine learning model to predict customer churn with 85% accuracy, using Logistic Regression, Random Forest, and XGBoost.
- Conducted feature engineering and data preprocessing to improve model effectiveness.
- Evaluated the model with precision, recall, and F1-score, identifying high-risk customers for proactive retention.

Financial Data Analysis & Visualization

- Analyzed 5+ years of stock/cryptocurrency data, identifying market trends, price movements, and volatility patterns using technical indicators (e.g., Moving Averages, RSI, MACD).
- Created a dashboard that visualized price trends and volatility, improving data-driven insights by 30% for investment decisions.

Achievements

- Achieved top ranks in 10th and 12th-grade exams with distinctions; recognized in local media for academic excellence.
- Participated in multiple AI and ML hackathons, developing innovative solutions under time constraints, gaining hands-on experience in rapid prototyping.