SHIVAM SINGH

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EDUCATION

Chandigarh University, Mohali, Punjab   **CGPA - 7.68**

Bachelors of Engineering in Computer Science   July 2021 – June 2025

CAREER OBJECTIVE

Dedicated Computer Science student with a strong foundation in AI, deep learning, and image processing. Passionate about leveraging machine learning to solve real-world problems and optimize intelligent systems. Seeking opportunities to apply my skills in research and development to drive technological advancements.

SKILLS SUMMARY

- **Languages:** Python, SQL, JAVA
- **Frameworks:** Pandas, Numpy, Matplotlib, Tensorflow, Keras, Scikit-Learn
- **Core Concepts**: DSA, OOPS, DBMS, Deep Learning, Machine Learning, Artificial Intelligence (AI)
- **Platforms**: Visual Studio Code, Google Colab
- **Tools:** Power BI, MySQL
- **Soft Skills:** Strong Communication,Team Collaboration, Problem-Solving

EXPERIENCE

- **BCG – Data Science Internship (Forage):** Performed EDA, feature engineering, and built predictive models to support BCG's decision-making. Delivered insights that improved operational efficiency by 15%.

PROJECTS

AI-Based Weather Forecasting Using Spatio-Temporal | Link   **Jan 2025 - May 2025**

- Built an AI weather model using LSTM and ConvLSTM, improving accuracy by 20%.
- Collected and preprocessed data from NOAA, Kaggle, etc., and evaluated with MAE & RMSE.
- Integrated dashboards and heatmaps for advanced climate analysis and forecasting.

Intelligent Traffic Management System Using Aerial Segmentation | Link   **June 2024 - Dec 2024**

- Designed a traffic optimization system using aerial image segmentation with TensorFlow, and Keras.
- Implemented Enhanced UNet3+ with attention mechanisms and improved segmentation accuracy by 30%.
- Boosted segmentation performance using CNNs, data augmentation, and deep learning techniques.

Stock Price Prediction Web App | Link   **Dec 2024 – Jan 2025**

- Built a stock prediction web app using LSTM and Random Forest models to forecast stock prices.
- Integrated Yahoo Finance API, applied scaling, and evaluated performance with MAE, RMSE, and R^2.
- Designed an intuitive UI to visualize predicted vs. actual stock trends,boosting user engagement by 50%.

CERTIFICATES

Machine Learning using Python (2025) | Link

- Learned supervised and unsupervised ML techniques, focusing on data preprocessing and model optimization.

Python for Data Science, AI & Development (2025) | Link

- Gained expertise in Python for AI, data analysis, and visualization using Pandas, NumPy, and Scikit-Learn

IBM Data Science (2025) | Link

- Acquired skills in data analysis, visualization, and machine learning, focusing on real-world applications.

Java as a Second Language (2024) | Link

- Proficient in core Java concepts, including control structures, methods, and object-oriented programming.

ACHIEVEMENTS

- Published an IEEE research paper at ICAIQSA 2024, detailing the development and impact of Enhanced UNet3+ for Intelligent Traffic Management | Link