BHARGAV KOUSHAL

National Institute of Technology Srinagar
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EDUCATION

B.Tech in Information Technology — **NIT Srinagar(8.4 CGPA)**
BSF Senior Secondary School, Paloura Jammu (Class XII, PCM) — 86.8% (2024)
BSF Senior Secondary School, Paloura Jammu (Class X) — 94.6% (2020)

SKILLS AND EXPERTISE

- **Programming:** Python, C++, C, HTML, CSS, SQL
- **ML/Data Science:** Data Preprocessing, Scikit-learn, NumPy, Pandas
- **Web/Frameworks:** Flask (basic), Django, API Integration, Responsive Design
- **Core CS:** OOP, Version Control (Git, GitHub, VS Code)

INTERNSHIPS AND PROJECTS

SpaceX Landing Page Clone (Front-End Development) *Nov 2025*

- Developed a pixel-perfect clone of the SpaceX landing page utilizing HTML5 and modern CSS for styling and layout.
- Focus was placed on creating a highly responsive design to ensure optimal viewing across various screen sizes (mobile/desktop).
- Demonstrated proficiency in front-end structure and presentation.
- Repository: github.com/bhar7av/SpaceX-clone

WeatherNotifier Application *Nov 2025*

- Built a practical notification application (likely using Python or a similar language) to fetch and parse real-time weather data.
- Implemented reliable API integration (e.g., OpenWeatherMap) to schedule and deliver timely weather updates to the user.
- Project showcases skills in external service integration and automation.

Multi-Step Time Series Forecasting (Machine Learning Project - Ongoing) *2025*

- Built a multi-step forecasting model to predict 7–30 days of future values using historical energy consumption/retail sales data.
- Engineered temporal features including lag variables, rolling-window statistics, and calendar-based attributes to capture seasonality and long-term trends.
- Implemented walk-forward (rolling-origin) validation to ensure strict time-series compliant model evaluation.
- Trained and compared advanced models such as XGBoost and LSTM-based neural networks for multi-step prediction.
- Achieved strong forecasting performance through hyperparameter tuning and model ensembling; visualized predictions vs actual trends.
- Tools used: Python, Pandas, NumPy, scikit-learn, Matplotlib, TensorFlow, XGBoost.

C++ Internship – Game Development (INTERPE) *Dec 2024 – Jan 2025*

- Developed three console-based games demonstrating strong C++ programming ability.
- Applied Object-Oriented Programming (OOP) principles, utilized STL vectors, and implemented modular coding and file handling techniques.
- Repository: github.com/bhar7av/BHARGAXC-

RELEVANT COURSEWORK AND LEARNING

- **Core Subjects:** Programming & Data Structures, Object Oriented Programming
- **Self-Learning:** Machine Learning(in progress)

LEADERSHIP AND ACHIEVEMENTS

Positions of Responsibility

- **Class Representative, IT Branch** (Aug 2024 – Ongoing): Led student body, coordinated faculty/student meetings, and maintained effective communication channels.

Key Achievements

- Secured 15th Rank in the highly competitive JK-CET exam 2024 conducted by JK-BOPE.
- Top performer at school; also a Conference Out Candidate from SSB, demonstrating strong mental aptitude and leadership potential.

EXTRA CURRICULAR

- Digital Media: Proficient in Adobe Premiere Pro, CapCut, and After Effects for video editing.
- Content Creation:Active creator with 3,000+ followers on Instagram, demonstrating strong digital engagement skills.
- Mentorship: Guided 25+ CBSE students (Grades 10–12) in Science subjects, fostering communication and teaching skills.
