

SHIVAMSHU ROY

◇ Buffalo, New York, United States of America

velamakannishivamshuroy@gmail.com ◇ [Linkedin.com](#) ◇ [Medium](#) ◇ [Github](#)

OBJECTIVE

Data Science and Analytics professional with experience in machine learning and data analysis. Seeking graduate assistant or teaching assistant roles to contribute technical and research skills.

EDUCATION

Master of Science in Engineering Science (Data Science)

State University of New York at Buffalo

Aug 2026 - Present

Buffalo, NY

Bachelor of Technology in Computer Science (Data Science)

Bennett University

CGPA: 8.93

2020 - 2024

SKILLS

Technical Skills

Python, Java, SQL, R, HTML, CSS, JavaScript, Machine Learning, Deep Learning, Data Analysis, Statistical Modeling, Data Science, UI/UX

Frameworks/Tools

TensorFlow, PyTorch, Flask, FastAPI, Git/GitHub, Jupyter Notebook, MySQL, BigQuery, Tableau, Power BI, Microsoft Office, VS Code

Soft Skills

Attention to Detail, Teamwork, Adaptability, Critical Thinking, Technical Presentation, Peer Mentoring, Problem Solving

Relevant Coursework

Data Structures and Algorithms, Object Oriented Programming, Data Science, Data Visualization, Database Management Systems

EXPERIENCE

Data Science intern

Tata Consultancy Services (TCS)

May 2024 - Aug 2024

Hyderabad, IN

- Applied Python, ML, and BI tools to conduct EDA and build automation workflows driving data-driven decisions
- Designed scalable data pipelines and visualization reports to improve operational efficiency across teams.

Data Scientist

Nxtwave Disruptive Technologies, Hyderabad, IN

Dec 2024 - Feb 2026

- Led end-to-end analytics and automation initiatives using SQL, BigQuery, and Google Apps Script to build reliable data pipelines, streamline reporting, and significantly improve operational efficiency across teams.
- Designed dashboards and analytical solutions for admissions, academic, and finance functions, translating complex data into clear insights that enabled data-driven decisions and measurable business impact.

PROJECTS ACCOMPLISHED

CheckmateLab

- Built a real-time chess analysis dashboard powered by Stockfish 16 NNUE with opening detection and position evaluation.
- Integrated Google OAuth authentication and Firebase backend to enable live ELO tracking, reducing manual effort by 40%.
- Developed move accuracy scoring algorithm and real-time win probability analysis for context-aware game reviews.

[LINK](#)

Green grid

- Designed an AI-based EV charging demand and location prediction system using temporal, spatial, and demand-driven features.
- Built and evaluated multiple machine learning models to identify the most effective approach for both prediction tasks
- Prepared and analyzed a 17,280-record dataset through feature engineering, preprocessing, and structured model evaluation.

[LINK](#)

ACHIEVEMENTS

Research in Improving Stock Market Forecasting Using Advanced Time Series Analysis Techniques [LINK](#)

- Led research on advanced time series analysis techniques for stock market forecasting, resulting in publication in a prestigious IEEE journal
- Presented findings on improving Holt-Winters and Simple Moving Average models at the CVMI-2023 conference, demonstrating enhanced prediction accuracy
- Developed novel optimization algorithms to increase efficiency and precision of stock market forecasting methods

COURSES AND CERTIFICATIONS

Data Visualization with Tableau

Career Essentials in Generative AI by Microsoft and LinkedIn

Data Analysis with Python

IBM Data Analyst Capstone Project