Rishabh Verma

Data Scientist/ Project Manager

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EDUCATION

BS/MS in Data Science and Minor in Business   Sep 2021 - Present

New Jersey Institute of Technology - Ying Wu College of Computing   Newark, NJ

- Cumulative GPA: 3.3/4.0
- Relevant Coursework:

CS288-Intensive Programming in Linux, **CS482**-Data Mining, **CS370**-Introduction to Artificial Intelligence, **FIN320**-Finance Data Analytics, **FIN310**-Data-Driven Financial Modeling, **CS493**-Senior Capstone II, **CS331**-Database System Design and Management, **MATH478**-Statistical Methods in Data Science, **FIN218**-Financial Markets and Institutions, **FIN306**-Blockchain Technology for Business, **DS644**-Big Data Systems, **DS650-**Data Visualization and Interpretation, **FIN315**-Fundamentals of Corporate Finance, **ACCT117**-Principles of Financial Accounting, **ECON201** Economics, **MATH337**-Linear Algebra, **MATH344**-Regression Analysis, **COM312**-Oral Presentation

KEY SKILLS

• **Data Analysis** • **Data Mining** • **Project Delivery** • **Predictive Modelling & Analytics** • **Machine Learning** • **Programming** • **Process Improvement**
• **Team Coordination** • **Quantitative Analysis** • **Data Visualization** • **Deep Learning Frameworks** • **Big Data Management** • **Statistical Modeling**
• **Team Management** • **Damage Control** • **Troubleshooting** • **Pen-Testing** • **Technical Writing** • **Operations Management** • **Critical Thinking**

TECHNICAL SKILLS

Languages: Python, R, C++, SQL, Java, JavaScript, HTML, CSS, C, Bash
Tools, Models & Frameworks: Tableau, Scikit-learn, NumPy, TensorFlow, NLP, AWS, Docker, Mongo DB, Git, Anaconda, VS Code, Kali Linux, MATLAB

Work Experience

Coordinator & CECC IT Specialist   Oct 2021 - May 2025

Career Development Services-NJIT   Newark, NJ

- **Collaborating** with nonprofits on their websites, newsletters, banners, etc. Websites include dblnj.org, estherinstitute.org, gracewestmanor.com, kab.org, njit.edu and others.
- **Administering** projects in a waterfall structure using **MS Project** to bring efficiency into the critical path
- **Coaching** newcomers on how to analyze each website, how to use the software used to develop websites, and how to interact with clients and report properly to employers.
- **Directing** a team of 3 grad students working on an Android app for Paralympic track events. I am also managing a team of undergraduates who work on websites, flyers, and newsletters.
- **Updating** cecc.njit.edu. Adding fresh projects, reducing phone call rates by 60%, and increasing team productivity. This helped pass a better budget to the department by the institute.

Chief Executive Officer   Jan 2022 - Dec 2024

Invasion Media   Indore, India

- **Achieved 80% RO**I through strategic social media and web management initiatives
- **Directed** company vision, resource allocation, and financial planning with a focus on high-performance team growth
- **Spearheaded** stakeholder meetings to align business goals with marketing and operational strategy

Software & Product Manager   Jan 2022 - Dec 2024

Invasion Media   Indore, India

- Built 3 dynamic versions of the company **website**; oversaw front-end and back-end feature integration
- **Designed** NDA-protected backend software, managed a development team of 5, and led debugging and deployment
- Introduced internal systems to **track** productivity and eliminate redundancy across teams

Business Consultant & Operations Lead   Jan 2022 - Dec 2024

Invasion Media   Indore, India

- Prepared custom **business strategies** to **streamline** reporting and enhance decision-making
- Evaluated performance metrics to identify inefficiencies and proposed **solutions** to boost employee output
- **Collaborated** with clients to **identify marketing gaps** and provide tailored business transformation advice

Finance & HR Coordinator   Jan 2022 - Dec 2024

Invasion Media   Indore, India

- **Handled** salary, tax, and subscription planning with an external chartered accountant to boost financial integrity
- **Formed** contracts, led hiring operations, and managed HR-related risk and conflict resolution initiatives

Project Manager   Feb 2019 - Nov 2024

Shockdrops LLC   Livingston, NJ
- Administered a team of 25, introduced growth tracking protocols, and ensured **90%** staff **retention**
- Optimized internal reports to monitor project **timelines**, **client satisfaction**, and team performance
- Drove cross-functional collaboration across development, **finance**, and hiring teams

Product Operations & Strategy Lead   Feb 2019 - Nov 2024

Shockdrops LLC   Livingston, NJ
- Created client-focused solutions by managing internal policies for hiring, vendor renewals, and new client onboarding
- **Formed** systems to identify cost-saving opportunities across membership fees, salaries, and contracts
- Worked directly with leadership to translate operational insights into strategic decisions

Finance & HR Associate   Feb 2019 - Nov 2024

Shockdrops LLC   Livingston, NJ
- Oversaw salaries, taxes, and performance-based **budgeting** with input from a chartered accountant
- **Directed** HR initiatives including contracts, hiring strategy, and productivity **audits**

INTERNSHIP

Silicon Harlem   May 2025 - Jul 2025

Azure AI Consultant   Harlem, NY
- **Engineered AI chatbots** for small businesses in Harlem, NY, to boost sales and retain customers and streamline processes
- **Modeled** multiple business plans for the company and pitched them to investors
- **Taught** 20 kids how to make a simpler chatbot and sell products door-to-door

Data Science Intern   Jun 2021 - Jul 2021

Intel Corporation   Newark, NJ

ML Application Development
- **Devised** and developed a machine learning application proficient in solving reCAPTCHA puzzles
- **Seamlessly** integrated this application into proprietary software, enhancing its functionality and efficiency
- **Initiated** internal networking, fostering skill development and enhancing communication abilities

PROJECTS

- **Object Tracing and Classification on Video Streams**   [GitHub](#) **| Sep 2024 - Dec 2024**
  - Designed and **deployed** a deep learning pipeline for object detection and classification on video data using pretrained transformer models.
  - Utilized Hugging Face models for **fine-tuning** classification layers; implemented real-time object tracing via OpenCV.
  - **Containerized** the solution using Docker to ensure modularity and reproducibility across environments.
  - **Integrated Ollama** and **huggingface** to develop and deploy the gradio application to fine-tune routes
  - **Formed** ETL **pipeline** to store raw data in **MongoDB** regarding vehicle routes
  - **Constituted** an Environment using **PyTorch**, **qdrant** and **clearml** to create the backend logic of the application
  - Integrated asynchronous frame extraction, prediction, and annotation to optimize throughput and inference speed.
- **All in One (AIO) Bot**   **Shade Softwares | Jan 2022 - May 2022**
  - **Manufactured** a full stack software that allows users to input multiple requests on a website without getting IP banned.
  - **Launched** the product in the fashion industry as well as reselling industry.
  - **Produced** a **6 figure** yearly revenue for the company before it was acquired by another company.
- **Dynamic Routing System for School Bus System**   **BaalVigyan 2018 | Mar 2018 - May 2018**
  - **Innovated** a dynamic routing system for school buses in India, optimizing transportation efficiency.
  - **Implemented** real-time tracking for students and parents, offering alternative boarding options for late or remote students.
  - **Awarded** the "Best Design 2018 (High School)" recognition.
  - **Contributed** to traffic improvement and reduced delays in student pick-up, minimized unnecessary stops, and enhanced communication between the drivers and the students/parents/teachers. This led to cutting carbon emissions by **20%**
- **City Trash Collection System**   **BaalVigyan 2017 | Mar 2017 - May 2017**
  - **Software Development:** Designed route optimization software for efficient urban trash collection in India, resulting in **annual savings** of **$3,200** across **three cities**.
  - **Successfully** mitigated littering and enhanced city aesthetics by **40%**. This contributed to the city, Indore (in India), **winning** "the **cleanest** city in India for the **8th time in a row.**
  - **Awarded** the "Best Idea of 2017 (High School)" accolade for this innovation.
- **F.I.R.S.T Robotic Championship**   **Livingston High School| Oct 2019 - Feb 2020**
  - **Engineered an autonomous** robot capable of finding its own path to park as well as pick up capstone and place it on top of the game tower.
  - Won State championship and was awarded the best logbook, which I had a hand in creating.
  - Qualified for Nationals but COVID canceled the events.

Research

Researcher – Weather Forecasting & Climate Modeling   Sep 2024 - May 2025

Ying Wu College of Computing   New Jersey Institute of Technology, Newark, NJ

- **Conducted** advanced modeling with the WRF-Solar model to enhance short-term weather prediction accuracy
- **Developed** and tested machine learning optimization pipelines using Bayesian Optimization and Double Dueling Deep Q-Networks (D3QN)
- Explored alternative numerical methods (**FDM**, **FEM**, **NWP**) but confirmed superior accuracy with Bayesian-based tuning
- **Authored** two LaTeX-formatted research papers, one focused on Bayesian Optimization, the second on Reinforcement Learning integration
- **Designed** reproducible experiments using NJIT's **GPU cluster and** maintained logs in structured repositories

Finance Research Assistant   May 2024 - Feb 2025

Martin Tuchman School of Management   NJIT, Newark, NJ

- **Wrote** a Decentralized Finance Research paper under Dr. Wang as the second author
- Accorded **the BEKK-GACH model** for analyzing data from the Bloomberg Index and using LaTeX to write the paper
- Presented the paper at **SWFA 2025**, Texas, and contributed 60% of the work.
- **Coached** an intern in the process of collecting data and writing a research paper for 3 months

EXTRACURRICULAR ACTIVITY

- JV Bowling | NJIT - Ying Wu College of Computing | Sep 2024 - Present
  - Representing NJIT at national levels and contributing to finishing in podium positions repeatedly
- NJIT Information & Cybersecurity | NJIT - Ying Wu College of Computing | Nov 2022 - Present
  - Conducting workshops and increasing our skillset.
- NJIT Nucleus Yearbook | NJIT - Ying Wu College of Computing | Sep 2021 - May 2022
  - Capturing experiences on campus to showcase in our yearbooks
  - Teaching freshers how to use cameras and edit photos

VOLUNTEER EXPERIENCE

- Sanskriti of NJ | Livingston, NJ | Mar 2019 - Jan 2021
  - Assistant teacher for Hindi, chess, and cooking for children of ages 5-14
  - Event manager for functions hosted by the organization.
- LHS Techie Teen Tutor | Livingston, NJ | Dec 2019 - Mar 2020
  - Senior Tech Support Volunteer, assisting senior citizens in resolving tech issues
  - Conducted workshops familiarizing members with their devices at the Livingston Library, NJ
- Blissful Coding Club | Livingston, NJ | Oct 2019 - Jan 2021
  - Teaching 20+ high school students HTML, CSS, Java, and Python.
  - Guiding students in pioneering their projects for the Google competition

HONORS & AWARDS

- Dean's list for 3 semesters | Dec 2021 - May 2025
- Honor's list for 2 semesters | Oct 2020 - May 2021
- Best Design 2018 (High School) | Mar 2018 - May 2018
- Best Innovation of 2017 | Mar 2017 - May 2017