

Neil Devnani

Driven Physicist and Data Scientist Curious to Tackle Difficult Problems

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EDUCATION

Northeastern University Khoury College of Computer Sciences

Boston, MA

B.S. Physics and Data Science

Expected May 2027

Data Science Coursework: Foundations of Data Science, Advanced & Intermediate Programming with Data, Discrete Structures, Introduction to Databases, and Information Visualization

Physics and other Coursework: Physics I & II, and Modern Physics, Calculus III, Linear Algebra, Differential Equations, Probability and Statistics, Engineering Design

TECHNICAL SKILLS & COMPETENCIES

Programming & Tools: Python (pandas, numpy, matplotlib, scikit-learn), SQL, HTML, CSS, JavaScript
Jupyter, Github, and SolidWorks

Data Science Focus: Time-series feature engineering & model tuning, data visualization, statistical analysis

Certifications: CITI Certifications: Human Subjects Research & Responsible Conduct of Research

EXPERIENCE & PROJECTS

Research Assistant — Gaze and Motor Performance Analysis

Boston, MA

Northeastern University with Professor Leanne Chukoskie

June 2025 - Present

Collaborates on an interdisciplinary study examining how gaze behavior and situational awareness evolve with player expertise in *Rocket League*, a global eSport with millions of players.

Utilizes computer vision models, eye tracking, and experimental design to analyze expertise transfer between physical sports (e.g., soccer) and eSports.

Applies Amy Edmondson's teaming principles to foster collaboration, leverage individual strengths, and improve research group effectiveness.

Machine Learning Project — Geomagnetic Kp Index Forecasting

Boston, MA

Personal Project

July 2025

Developed a machine learning model to forecast the geomagnetic Kp index using time-series features derived from solar flux and sunspot NOAA data.

Visualized model predictions over 200-day periods, allowing for a clear comparison between actual and predicted Kp trends to validate the model's effectiveness.

Explored potential real-world applications in satellite communication risk assessment and space weather forecasting.

Biotechnology Lab Intern — Molecular Cloning

San Francisco, CA

IndieBio

Spring 2017

Conducted molecular cloning experiments, including inserting Green Fluorescent Protein (GFP) genes into **E. coli** using restriction enzymes, DNA ligase, and heat shock transformation.

Designed and executed a complete biotech workflow from initial gene editing to final protein expression, strengthening core technical skills and lab safety.

Purified and visualized recombinant proteins, gaining hands-on experience with advanced biotech lab

techniques.

Content Creator

Northeastern AI Club

Boston, MA

October 2025 - Present

Designs and produces AI-related visual content to expand club visibility across digital and campus platforms.

Collaborates with the executive team to align creative output with ongoing AI initiatives and event themes.

Curates summaries and highlights from workshops and speaker sessions to increase student engagement.

Manages social media strategy, improving awareness of current AI trends and fostering community participation.

LEADERSHIP & ACTIVITIES

NCAA Division I Men's Soccer Athlete

Northeastern University

Boston, MA

August 2023 – Present

Manages 20+ hours per week of training, travel, and competition simultaneously with a full Data Science course load, demonstrating exceptional time management and discipline.

Coordinates game plans and provides peer mentorship to teammates on technique and strategy, driving continuous improvement within a high-pressure, competitive environment.

Entrepreneurial — Freelance Barber

Self

Boston, MA

January 2024 - Present

Develops comprehensive business acumen, managing client acquisition and fostering retention through sophisticated Instagram marketing strategies.

Ensures high client satisfaction by consistently delivering exceptional service, upholding rigorous hygiene standards, and staying current with industry trends.

Camp Counselor (Best Coach Award Recipient)

Stanford Men's Soccer

Palo Alto, CA

June 2024

Organized and led drills, games, and scrimmages to improve camper skills, teamwork, and sportsmanship.

Facilitated conflict resolution, managed schedules and equipment, and received the "Best Coach" award for effective instruction and leadership.

Activities: Student-Athlete Advisory Committee (SAAC) Social Media Team

Interests: Reading, Cooking, Traveling, and Sports (Aston Villa fan)

References available upon request.