

Nikhil Chinchalkar

(+1) 609-498-4840 • nsc49@cornell.edu • nikhilchinchalkar.com

EDUCATION

Cornell University, College of Arts and Sciences

Economics & Computer Science Double Major, Data Science Minor

GPA: 4.22 (A+ =4.3)

Ithaca, NY

Expected graduation Dec 2026

PROFESSIONAL EXPERIENCE

Princeton University, Data Visualization Specialist | Princeton, NJ

Jun.-Aug. 2024

- Created and documented 13 cutting-edge animations and interactive visualizations in **R**, pushing limits of **ggplot2**, **gganimate** and **plotly**, with detailed documentation (avg. 1000 words per chart) in online tutorials. Worked with large complex datasets (totaling around 30 GB of data and 60 million csv rows). Developed extensive but concise code (avg. 500 lines per animation)
- Planned and led an interactive workshop on ‘Animations & Visualizations in R’ to 14 researchers from Princeton University. Rated 5 out of 5, on quality of training
- Designed and implemented an online guide for producing dynamic animated visuals using vector and raster **GIS data** in **Blender**, and executing rendering processes on a **HPC cluster** (aka supercomputer)
- Built a knowledge repository for researchers including an easy-to-navigate handbook for creating three-dimensional prints from PNG logos, and an online resource for rendering **Blender** scenes using advanced spline camera movement techniques

PROJECTS

Campaign Trails, Project Lead | Ithaca, NY

Sep.-Nov 2024

- Led a 5-person group to analyze Presidential candidates’ campaign visits to find patterns to predict future elections
- Generated a logistic regression model using **sklearn** in **Python** to model output, which correctly predicted each election outcome from 2004 onwards
- Created 6 interactive maps using **R** to visualize candidate’s travels over time, using **gganimate**, **ggplot2**, and **GIS**
- Published findings to an online website created using **JavaScript** that held the front page at cornelldatajournal.org

NYC Trees, Researcher | Princeton, NJ

Jul.-Aug 2024

- Modeled a 3D environment of New York City's trees to highlight division within the city and the social and environmental impact of trees using around 20 GB of **SHP**, **TIF**, and **OSM** data
- Developed a foundational understanding of **GIS data**, **Python in Blender**, and working with Princeton's **Adroit-Vis cluster** (aka supercomputer)
- Documented all work using GitBook and published final movie to YouTube

Billboard Sentiments, Project Lead | Ithaca, NY

Jan.-May 2024

- Led a 7-person project team to analyze trends in music sentiment and rhythm since 1960, using **Genius API** and **NLTK’s sentiment analysis** in **Python**
- Created advanced interactive visualizations in **R** and short- and long-form analytical writeups about key trends, published to billboardsentiments.com
- Conducted weekly project check-ins to monitor progress, address obstacles, delegate tasks and keep team motivated

CAMPUS INVOLVEMENT

Emerging Economies Association, Finance Director | Ithaca, NY

Sep. 2023-Nov. 2024

- Consulted a business outsourcing company iQor on ‘Options for improving employee productivity’
- Generated and visualized insights using **R** and presented in **PowerPoint**
- Led planning and execution of 3 social events for 30+ club members, including scouting locations, booking venues, dealing with third-party vendors and managing \$9,000 worth of funds and payments

Big Red Sports Network, Baseball Analyst | Ithaca, NY

Jan. 2024-Nov. 2024

- Conducted in-depth analysis of data from **Synergy Baseball** to gain insights on opposing player tendencies
- Utilized **R** extensively for data analysis and visualization, to build accurate and insightful presentations
- Presented research findings and conducted weekly Q&A sessions with Cornell’s baseball coaching staff

SPECIALIZED SKILLS

Software: Java, R, Python, JavaScript, HTML, CSS, Blender, QGIS, Adobe Premiere Pro, Linux Command Line, Excel, Google Sheets, Visual Basic Assistant, Google Scripts

Languages: Professional-Level Spanish (New Jersey State Seal of Bilingual Proficiency)