

Manish Adhikari

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EDUCATION

Howard University

May, 2025

B.S., Computer Science; Minors: Economics and Mathematics, GPA 4.0/4.0

Washington, DC

Relevant Courses: Data Structures and Algorithms I, II and III; Database Systems; Calculus: I, II and III; Discrete Structures; Linear Algebra; Database Systems; Artificial Intelligence; Object-oriented programming, Probability and Statistics, Cybersecurity I

WORK EXPERIENCE

Center of Excellence in Housing and Urban Research and Policy

May.2022 – Present

Data Science Research Assistant

Washington, DC

- Leveraged Python libraries including **pandas, geopandas, scikit-learn, folium, and matplotlib** to execute comprehensive data analysis and visualization for major 3 housing projects, encompassing evaluations of the DC home purchase assistance program.
- Spearheaded data collection, transformation, and analysis to depict migration trends among homeless populations in New York City, revealing a **25%** increase over 5 years, and a strong correlation with the PM 2.5 pollution factor.
- Generated and refined more than **100** static and dynamic data visualizations such as maps, histograms, and bar plots, pivotal in informing research papers and facilitating more than a **30%** increase in effectiveness of data-driven policy-making.

College of Arts and Sciences, Howard University

May 2022 - Present

Web Developer

Washington, DC

- Directed front-end development as the lead designer for the website, employing Drupal, HTML, CSS, and JavaScript to optimize user experience and functionality, leading to a **15%** increase in monthly views.
- Lead the regular updates and maintenance efforts for the website, guaranteeing its relevance, and functionality,

Python and Data Science Instructor

Summer 2023

- Developed and delivered tailored curriculum encompassing Python fundamentals and introductory data science concepts to a cohort of 12 participants, improved their academic performance by **10%**.

TECHNICAL SKILLS AND PROJECTS

- **Skills:** Python, HTML, CSS, JavaScript, Git, C++, Java, R, MIPS, Lua, Linux, Django, Pandas, Geopandas, Matplotlib, Scikit-learn, folium, AWS (in view), React.js (in view), MySQL (in view), Overleaf
- **Projects:**
 - Designed and developed a Web3 marketplace for acquiring Outcome-based NFTs linked to real-world events; Employed decentralized NFT metadata storage on IPFS and optimized data retrieval via Subgraph/The Graph, alongside a user interface with React, Next.js, and MaterialUI. (Lionhack @ Columbia University)
 - Automated movie selection with an AI recommendation system (scikit-learn), using IMDB-scraped data (beautiful soup).
 - Discovered and graphed the network topology for Howard University using scapy, networkx and matplotlib.
 - Medication reminder for mom that uses Twilio app to send text when it's time for the medication and keep following up.
 - Python Automation Scripts: Instagram and Facebook content deletion, Stock price change detection, Free pizza detection for my initials, Laptop screen shrink prank, autosaves for games.

LEADERSHIP EXPERIENCE

Howard University Alternative Spring Break

March 2023

Team Leader

Philadelphia, PA

- Supervised a team of 23+ members in mentoring middle school students in two different schools in Philadelphia about college and careers. Coordinated a non-profit, As I plant this seed, for setting up public refrigerator, packaging and transporting food to provide meals to 100+ homeless individuals.

HONORS & AWARDS

- **Howard University Founders Scholarship:** Awarded a \$26,000 scholarship for exceptional academic performance.
- **Google Capacity Fund Award:** Recipient of \$2500 scholarship from the "Google Capacity Fund"
- **WINNER, Data for Good Hackathon. JP Morgan and Chase:** Developed a data-driven proposal for a non-profit, starting with today, to promote black wellness and liberation.