

JIBEK GUPTA

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EDUCATION

Howard University

Bachelor of Science in Computer Science

2026

Washington, DC

Expected: May

- **GPA:** 3.58
- **Awards:** Leadership Scholarship, Google Capacity Fund Recipient
- **Relevant Coursework:** Data Structures & Algorithms, Applied Data Science, Cloud Computing, Database Management, Software Engineering

TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS

Machine Learning: TensorFlow, Scikit-Learn, Feature Engineering, Classification, Regression, Clustering

Data Processing: Pandas, Matplotlib, Seaborn, BeautifulSoup, Selenium, ETL Pipelines

Tools & Frameworks: Django, Tableau, Git, GitHub, AWS, Jupyter Notebook, VS Code

WORK EXPERIENCE

Community Data Fellow

August 2024 - Present

Research Experience for Undergraduates, Howard University

Washington, DC

- Analyzed extensive census datasets and built interactive dashboards that empowered community decision-making, streamlining insights across 100,000+ records.
- Engineered efficient data cleaning, transformation, and feature engineering workflows using Python and Pandas, reducing preprocessing time significantly.
- Led development of a Census API project, creating a public database with an intuitive visualization interface that made complex data accessible to end users.

PROJECTS

Movie Recommender System | Python, Scikit-learn, Tkinter | [GitHub](#)

- Designed and implemented a content-based recommendation system that delivers personalized movie suggestions.
- Leveraged TF-IDF vectorization and cosine similarity, boosting recommendation relevance by 20%.
- Enhanced user engagement through a responsive Tkinter-based interface.

Weather Forecasting System | Pandas, Matplotlib, Scikit-learn | [GitHub](#)

- Developed a predictive model using Ridge Regression to forecast weather conditions based on historical data.
- Achieved 85% accuracy in weather pattern prediction, improving forecast reliability for agriculture and disaster management.
- Optimized model performance by 25% through comprehensive data cleaning and feature engineering.

Automated Web Scraping Tool | Python, BeautifulSoup, Selenium | [GitHub](#)

- Built a web scraper to extract data from 100+ product pages, cutting manual collection time by 40%.
- Implemented dynamic content handling to achieve a 95% data extraction success rate.
- Automated export of structured datasets in CSV format, streamlining product analysis workflows.

PROFESSIONAL DEVELOPMENT

Cloud Computing And Distributed Systems Workshop

January 2025

Howard University

- Designed scalable distributed system architectures for processing datasets exceeding 1TB.
- Deployed robust ETL pipelines that reduced latency by 20%.

J.P. Morgan Software Engineering Virtual Experience

January 2024

Forge - Platform offering virtual work experiences

- Developed dynamic market data visualizations using J.P. Morgan's Perspective Library.

- Configured environments for real-time financial data tracking, enhancing analysis efficiency.