BHAGAWAT CHAPAGAIN

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EDUCATION

Stevens Institute of Technology May 2026

BS, Computer Science: *Edwin A. Stevens Scholarship, Dean's List*

Relevant Coursework: Data Mining, Data Structures, Algorithms, Agile Development, Software Development, Intermediate Statistics, Senior Design, Database Management, Human Computing, Computers & Society, Security, etc.

SKILLS

Languages: Python, Java, SQL, C, C++, C#, R, Ocaml, LaTeX

Tools: TensorFlow, Keras, OpenCV, Machine Learning, Data Analysis & Visualization, NLP, PostgreSQL, MySQL, Jupyter Notebooks, Keras, SciKit Learn, Pandas, Numpy, Matplotlib, Google Colab, Github, Slack, Adobe Workspace, Git, Microsoft Office 365, Figma, Google Cloud Platform, IntelliJ, Maven, Kotlin, Gradle, Kaggle, HuggingFace, etc

EXPERIENCE

Columbia University Data Science Institute, (NYC): Transporation Data Science Project Mentor *Current*

- Instructed 5000+ a/sync students from diverse academic and professional backgrounds in the Northeast Big Data Hub's Transportation Data Science Project (TDSP)

Options Insurance Company, (Hershey, PA): Software Developer Summer 2023

- Leveraged **Selenium** for dynamic manipulation of CSS objects to automate customer communications with data retrieved using **Pandas**, enhancing headquarters operational efficiency by **67%** for **2+** years and counting.

PROJECTS

Data Scientist: Transportation Data Science Project Spring 2025

- Generated visualizations by leveraging NYC OpenData Datasets with **Matplotlib** and **Seaborn** for TDSP
- Created **Folium** heat and severity maps of crashes throughout NYC, emphasizing injury and mortality
- Analyzed patterns between neighborhood diversity and congestion to determine the effect of Mid-20th Century urban planning on displacement of underserved communities in South Bronx, Harlem, and Brooklyn

Software Developer: SATDBailiff Technical Debt Fall 2024

- Refactored existing SATDBailiff to directly access database files in **Java** using **Apache Commons CLI** library.
- Managed **mySQL** & **SQLite** databases to store and manipulate **60+** data fields among **10,000+** rows detected by the SATD Tool. Implemented CTE tables using **JDBC** to find and delete **500+** duplicate entries from 7 table fields.

AI/ML Developer: 3D Vehicle Object Detection via Computer Vision Fall 2024

- Implemented a **Hashmap** to manage over **390** auto vehicle images for model classifications with **95%+** accuracy
- Integrated layering on **MobileNetV2** model using **ImageNet** weights in **TensorFlow**. Measured entropy across 256 neurons in the model that assessed an average accuracy of **97.20%**.

Web Developer: EzReadz Chrome Extension Spring 2024

- Used a **Queue** in **JavaScript** to identify paragraph structure by punctuation ('.', '!', etc.). on webpage. Enabled text customization (typeface and color) **accessibility** for **37%** increased reading retention in large academic texts.

INVOLVEMENT

Stevens Institute of Artificial Intelligence Research Assistant: "Denoising Bioimaging Data" Fall 2024

- Leveraged **YOLOv8** and **OpenCV** visualization tools to train a supervised **Convolutional Neural Network** to classify **300+** regions of interest material-macromolecular cell interfaces to identity neurodegenerative disease.

Stevens Alumni Council (SAC) Fall 2024

- Engaged **1,006+** Stevens alumni to campus and assisted with Stevens Day of Giving event raising **$631,422**.
- Assisted in pilot launch of **Student Government Association x Student-Alumni Council** Networking Program. Advocated for early adoption within Stevens community to create a tighter-knit alumnus family.

NJ Educational Opportunity Fund Program Instructor Summer 2024

- Mentored **50+** of EOF undergraduate recipients in computer science, mathematics and engineering innovation.
- Lead **30+** recitations in differential and integral calculus, classical physics, and introductory electrical engineering.