Tejas Chandra

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Education

UNC Chapel Hill — Chapel Hill, NC

Bachelor of Science in Computer Science: GPA 3.93/4.00 — *Expected Graduation 2026*

- UNC Product Management Team; Carolina Investment Group; UNC Computer Science + Social Good; Dean's List

Experience

Quantitative Analyst Intern — May 2024 – Aug 2024

Bank of America — *Chapel Hill, NC*

- Automated visualizations and GAP Analysis tracking team adoption of SDLC processes using Jupyter and Flask, resulting in an 80% increase in process efficiency over manual analysis.
- Developed algorithms to process, document, and convert Alteryx JSON5 workflows using Alteryx API outputs into Python scripts for over 3,800 Enterprise Tests.
- Implemented SDLC methodologies, including unit and regression testing for each algorithm and managing version control via Bitbucket.

Quantitative Analyst — Aug 2022 – Dec 2024

Carolina Investment Group — *Chapel Hill, NC*

- Collaborated with a team of 4 developers to create Python algorithms for a student-run hedge fund, leading to a 12% increase in portfolio performance.
- Conducted market analysis using SciKit Learn techniques such as Covariance Estimation, k-clustering, and Manifold Learning to identify profitable investment opportunities.

Software Developer — Sep 2023 – May 2024

Compass Center — *Chapel Hill, NC*

- Led the development of a web application using Next.js, Node.js, TailwindCSS, and Firebase with a team of 6 developers.
- Managed backend operations with PostgreSQL, implementing CRUD functionality to optimize customer data storage, improving client data management efficiency.

Projects and Coursework

COMP 488 - Data Science | *SciKit, XGBoost, OpenAI, HuggingFace* — Jan 2024 – June 2024

- Developed a Google Ad Classifier using 27,000+ web-scraped ads, labeled with GPT-4 API; trained model with RandomForest and BERT achieving 87% accuracy; hosted on HuggingFace
- Applied Linear Regression, t-SNE clustering, and PCA using SciKit and PyTorch to predict rent prices in Chapel Hill with 90% accuracy using web-scrapped Zillow data
- Developed models to assess peer-to-peer investment validity on LendingClub; employed RandomForest and Logistic Regression train/test to predict ROI and default rates; found mid-risk loans resulted in 10% higher ROI

EY Open Science Data Challenge | *Python, MatLab, R, Scikit* — Mar 2023 – Apr 2023

- Developed predictive models for rice crop yield against vegetation growth patterns using Microsoft's Planetary Computer Sentinel-1's RTC dataset.
- Visualized data trends with Altair and MATLAB, contributing to a comprehensive agricultural report.

FoodGuru | *Java, JavaScript, HTML5, SQL* — Sep 2021 – Aug 2022

- Created a recipe generator web application with a team of 4, utilizing SQL, Python, and API requests to curate a database of 100+ recipes from 400 ingredients.
- Led the backend development and database management, enhancing the app's recipe suggestion accuracy by 25%.

Technical Skills

Programming Languages: Java, Python, C++, JavaScript, TypeScript, C, Assembly, Elixir, Go, Erlang
Libraries: OpenCV, SciKit, Node.js, React, Next.js, Flask, CSS, Angular
Other Skills: SDLC, AGILE, CRUD, PostgreSQL, BitBucket