ABHAV KUNCHAKURI

(984) 810-4643 • abhav@unc.edu
linkedin.com/in/abhavk

EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC May 2030
B.S.B.A. Business Administration + B.A. Data Science + PPE Minor

- GPA N/A

North Carolina School of Science & Mathematics C/O 2026 – Durham, NC

- GPA 4.72 / 4.00

Honors and Awards

- Kenan-Flagler Assured Admit, SMathHacks 2026 Grand Award, Stockholm Junior Water Prize USA (GRIME team), Global Conrad Challenge Semifinalist, Gold Presidential Volunteer Service Award, TSA: 2x 1st & 2x 2nd Place State, 2x International Finalist.

EXPERIENCE

EAI Capital – Raleigh, NC Jan. 2026
Commissioned Project, DealFlow – AI Financial Research Tool

- Reduced manual equity-research time by ~40% by integrating Anthropic, OpenAI, Gemini, and OpenRouter APIs to automate earnings-report summarization, sentiment extraction, and structured-data output.
- Integrated DealFlow into analysts' daily equity-research workflow by iterating its interface and output formats around direct user feedback and existing research requirements.

Quantitative Finance Association, UNC – Chapel Hill, NC Sep. 2026 – Present
Fixed Income, Currencies & Commodities (FICC) Analyst, Discretionary Team

- Pitch rates, FX, and commodity trades for the club's ~$100K fund, grounded in macro research on central bank policy, inflation, yield curves, and global growth.
- Apply algorithmic trading strategies and financial models to evaluate trade ideas, size positions, and manage risk across the fund's FICC portfolio.

Garbage River Interception & Modeling Engine (GRIME) – Durham, NC Mar. 2026 – Present
Independent Project

- Earned the SMathHacks 2026 Grand Award for Best Climate-Aware Solution; the system later placed first nationally at the Stockholm Junior Water Prize USA.
- Engineered a Python optimization engine weighing 27 parameters across GIS river data, machine-learning flow predictions, and pollution density to rank ~90,000 candidate interceptor locations worldwide.
- Shipped the engine as an interactive web application with live map visualization, letting users compare interceptor sites by projected waste captured.

LEADERSHIP + RESEARCH

Young Investors Society, NCSSM Chapter – Durham, NC Jun. 2025 – May 2026
Co-Founder & Vice President

- Co-founded NCSSM's 50-member chapter and led weekly meetings on investing, market analysis, and management of a paper-traded portfolio built from member stock pitches.
- Organized guest events featuring a Y-Combinator founder and Duke alumni to connect members with startup and finance professionals.

Research in Mathematics Program, NCSSM – Durham, NC Jan. 2025 – Jun. 2025
Student Researcher

- Developed the Isonumeric Method with Dr. Michael Lavigne, a digit-based encoding that counts alkane structural isomers.
- Scaled the method to 25-carbon alkanes via a combinatorial choose-function approach and presented findings.

PURE Youth Raleigh – Raleigh, NC Sep. 2022 – Dec. 2024
Co-Founder & Executive Director

- Scaled a 501(c)(3) non-profit for children's education from 0 to 30+ ambassadors, reaching 100,000+ children around Uganda, India, and Kenya.
- Raised $10,000 by securing community partnerships and corporate sponsorships to fund education programs and expand operations year over year.

ADDITIONAL INFORMATION

Programming: Python, JavaScript, TypeScript, SQL, R, HTML/CSS, Pandas, NumPy, scikit-learn, TensorFlow, PyTorch
Tools: Excel, Git, Flask, FastAPI, Docker, Supabase, PostgreSQL, Google Cloud Platform, AWS