# BIBEK NEUPANE

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## Education

**Fisk University** **Expected Graduation Date:** Dec 2026

Bachelor of Science in Computer Science *Nashville, TN*

***Relevant Courses:*** Computer Programming, Data Structures & Algorithms, Operating Systems, Object Oriented Programming(OOP), Database Management, Introduction to Computer Science I & II, Machine Learning, Computer Organization and Assembly Language, Linear Algebra, Probability and Statistics, Calculus

***Awards:*** Fisk University Outstanding Scholars and Leaders Scholar, Goldman Sachs Market Madness 2025, Emerging Scholar at ULM

## Experience

**Market Madness HBCU Possibilities 2025** **Jan 2025 - April 2025**

*Goldman Sachs*

- Selected for the highly competitive **Goldman Sachs Market Madness Program**, a semester-long masterclass on key financial concepts led by industry leaders, with networking opportunities, including **HBCU** alumni
- Conducted a case study on **Amer Sports**, analyzing market trends and financial performance to propose data-driven strategic solutions

**Team UnderCoder – Mastercard x AUC Data Science** **Fall 2024**

*First Runner-up*

- Developed a predictive model using **Random Forest** in Scikit-learn, automating the prediction of Inclusive Growth Scores for underserved Nashville communities, enhancing data-driven policy-making
- Built a centralized data pipeline in **Python**, processing socioeconomic data with **Pandas** and **NumPy**, optimizing data handling and feature engineering for model accuracy
- Created dynamic **visualizations** with Matplotlib, Seaborn, and Plotly, providing real-time insights into community disparities

**Software Engineering Intern** **May 2024 - Aug 2024**

*Chain-Link Engineering*

- Developed an online hospital ticketing system using **React.js** for the front end and **Node.js** with **Express** for the back end, improving patient check-in efficiency for approximately **700 +** daily users
- Contributed to developing a comprehensive security framework, including user authentication, role-based access control, and data encryption, to protect sensitive patient information
- Built **MongoDB** dashboards that provided hospital management with actionable insights, increasing decision speed by 15%

**Research Intern** **Jan 2024 - May 2024**

*University of Louisiana at Monroe*

- Conducted a detailed statistical analysis on the topic '**Online Classes vs Physical Classes to Learn a New Language**' with a faculty mentor, analyzing feedback from **115** learners using online platforms like Duolingo and another **115** learners from physical classes
- Used statistical methods such as mean calculations, t-tests, and regression analysis to demonstrate that in-person classes improved language learning outcomes by **15%** compared to online formats

## Skills

**Languages:** Python(Numpy, Pandas, Scikit), C/C++, JavaScript, Java, C#, SQL**,** TypeScript, HTML5/CSS3
**Tools & Frameworks:** ReactJS, NodeJS, ExpressJS, MongoDB, Django, Flask, Pytorch, Tableau, TensorFlow, git, Firebase, .NET, MySQL

## Projects

**YouTube Transcript Summarizer** | *Python, OpenAI GPT-3, YouTube Transcript API* | GitHub

- Developed a Python app to extract and summarize YouTube video transcripts, applying **Natural Language Processing (NLP)** techniques
- Integrated **OpenAI GPT-3** to generate context-based, accurate responses and detailed summaries from the transcript, enhancing understanding and usability
- Restored punctuation using **rpunct**, improving text clarity for enhancing summary quality and user readability

**Soccer-Stat Analyzer** | *ReactJS, MongoDB, FootballAPI, ExpressJS, NodeJS* | GitHub

- Developed a React-based application to track global soccer clubs, providing real-time data on fixtures, results, and player statistics via **API-Football**
- Implemented **MongoDB** caching to optimize performance, reducing external API calls and minimizing latency during high-traffic
- Utilized **Node.js** for efficient back-end integration, ensuring seamless real-time data retrieval and server-side processing

**University Parking Website** |*ReactJS, TypeScript, Flask, MySQL* **Feb 2024 - May 2024**

- Developed a parking management system using **React.js** with TypeScript and **Flask**, integrated with **MySQL** for data storage, streamlining parking reservations, and complaint handling for ULM students
- Implemented **TypeScript**-based image upload feature, reducing issue resolution time by **40%** and increasing user satisfaction by 25%
- Built automated ticketing and user authentication features, ensuring secure data management with advanced encryption protocols

## Leadership and Activities

**Vice President- Google Developers Students Club** **Fall 2024**

- Coordinated logistics and event planning for the university's first Hackathon, attracting **85+** participants, and partnering with IBM and Lumen Technologies to organize **10+** events, including **Docker and Kubernetes** workshops, increasing club participation by **30%**