

Vineel Panyala

vp.panyala@gmail.com | 952-232-7248 | linkedin.com/in/vineel-panyala | vineel-panyala.github.io

EDUCATION

Georgia Institute of Technology

Atlanta, Georgia

B.SC in Business | Concentration in Information Technology Management

Organizations: Honors Program

Expected Graduation: December 2026

Honors: National Merit Finalist (<1% Acceptance), Holasek-Griffiths Scholar in Business (<1% Acceptance)

University of Minnesota - Twin Cities

Minneapolis, Minnesota

Grade Point Average: 4.00/4.00

PSEO Coursework: Intro to Algorithms and Data Structures, Principles of Microeconomics, Fund. of Computers

CERTIFICATIONS

Duke University AI Product Management Specialization

August 2024 - Present

AI Product Manager Specialization | Duke University

- Gaining expertise in **Machine Learning** Fundamentals: **model evaluation, data science, & ethics**
- Employ AI/ML system roadmap design for **Pandas & Scikit-Learn** model of energy output by power plant

IBM Back-End Developer Professional Certificate

July 2024 - Present

Back-End Developer Professional Certificate | IBM

- Accumulated Experience in **Data Manipulation (Pandas & NumPy)** and **Web Scraping (Beautiful Soup)**
- Utilized & Developed Python to build **AI applications** utilizing **Flask**; Other Skills: **Linux, GitHub, SQL**
- Set to build **AI Emotion Detector** web application that **analyzes customer feedback** deciphering **emotions**

EXPERIENCE

Scheller College of Business – Georgia Tech

August 2024 - Present

Machine Learning Research Assistant | Atlanta, Georgia

- Developing **Twitter** recommendation system clone: **SimCluster, TwHIN, HeavyRanker** implementations
- Using **PyTorch & TensorFlow** for **candidate generation & heuristic filtering** for defined algorithms

C.H. Robinson

February 2024

Data Engineer Shadow | Eden Prairie, Minnesota

- Assisted **data management** operations, gaining hands-on experience with **SQL & Snowflake** data operations
- Leveraged **automation** in **cloud data migration** for streamlined performance & **data exploration**

Code Ninjas

August 2023 – February 2024

Computer Science & Game Development Tutor | Chanhassen, Minnesota

- Instructed **100+** students **core coding concepts** by guiding them in building **50+ game-like** software projects
- Led **15+** tutor team, ensuring fulfilled customer's needs; Languages: **C#, JavaScript, Block-Coding**

PROJECTS

NewTunes | Python, Pandas, Scikit-Learn, PyTorch

July 2024 – Present

- Developed **machine learning model system** for predicting popularity of songs based on audio **metadata**
- Merged** and **cleaned** multiple large datasets creating applicable dataset product with **16+** audio features
- Leveraged **preprocessing** techniques (Min-Max Scaling, etc.) to standardize input data for **training** metrics
- Improved **accuracy rate** by **11%+** through **feature engineering** and optimal **hyperparameter tuning**
- Trained **PyTorch neural network** models achieving **3.6% Mean Sq. Error** (total loss) as **analysis result**

Wordle Clone & Easy Wordle | Python, Data Structures & Algorithms

October 2023

- As part of UMN CS 1913, created clone of **NYT Wordle Game** with color-coded feedback for user guesses with **word-filter system** alongside **easy version** that provides **possible solutions** based on **previous rounds**
- Engineered **robust system** that handles guesses, **updates** clues, and **core game mechanics** for gameplay

Smith Coffee & Café Mobile Application | Swift, Figma

January 2023 – June 2023

- Built **Swift iOS Storyboard App** alongside **Figma App** design with partner to create **mobile ordering app**
- Selected as **1/2,800+** students to present app pitch to **100+ companies** (Numerous **F500** in attendance) at **Industry Networking Event**; leveraged customer perspective & **product functionality** for design process

SKILLS & INTERESTS

Skills: Python, Java, SQL, Snowflake, Pandas, NumPy, Scikit-Learn, PyTorch. Swift, Linux, GitHub Copilot, Figma

Tools: VS Code, Jupyter Notebook, Office 365, Xcode, Eclipse

Interests: Pickleball, Traveling, Music – All Genres, Running, Lego-Building, Volleyball, Reading, Basketball