Shivam Patel
Franklin Park, New Jersey | 551-263-7691 | shivamkp57@gmail.com
Inspired by a **single** vision of transforming society through ones & zeros.

EDUCATION

Rutgers University-New Brunswick   **Sep 2022 - May 2026**

B.S. Major Computer Science, B.S Major Data Science

> **Relevant Coursework:** Data Management, Discrete Structures I/II, Regression Methods, Internet Technology, Computer Architecture, Data Structures, Linear Algebra, Statistics, Calculus I/II.

EXPERIENCE

- **Rutgers University**   **May 2023 -Dec 2023**
  Undergraduate Research Assistant
  - Collaborated with Professor Arnold Glass and a team to analyze data from 10 behavioral experiments, leveraging statistical models to validate theories on human memory.
  - Applied Conditional Associative Accuracy (CAA) Model to analyze recognition memory data, streamlining data collection processes and improving efficiency by 20%.
  - Conducted data analysis using Python (Pandas, NumPy, OS), identifying trends that influenced the experimental design and improved research outcomes.

- **VadtalDham New Jersey**   **July 2023 - May 2024**
  Front-End Developer
  - Redesigned website architecture with modular components and optimized API calls using React.js and Node.js, achieving a 20% reduction in page load time.
  - Designed and implemented a Containment Management System, automating updates and notifications, which improved operational efficiency by reducing manual errors.
  - Developed and managed an e-commerce platform enabling users to donate and request tiffin services, integrating with the temple's system for seamless order retrieval.

- **Outlier AI**   **May 2024 – August 2024**
  A.I Engineer Intern
  - Partnered with cross-functional teams to design and deploy scalable AI pipelines, incorporating advanced data preprocessing techniques and optimized feature engineering.
  - Built and fine-tuned ML models leveraging grid search for hyperparameter optimization, increasing anomaly detection accuracy by 60% using Python and TensorFlow.
  - Executed A/B testing and conducted performance analysis on deployed models, improving prediction accuracy by 15% and ensuring 99% reliability in production environments.

PROJECTS

- **Stock Analyzer Application**   **Sep 2022 -Dec 2022**
  - Acquired financial data using the Yahoo stock library to visualize existing trends while also implementing technical indicators to formulate algorithmic trading strategies.
  - Implemented an AI-driven sentiment analysis tool using Python and Scikit-learn to predict stock price trends, achieving 65% prediction accuracy.
  - Implemented an AI to analyze the emotions of what the author writes and does sentiment analysis on the text to determine how the author "feels" about a stock to determine the increase of a stock's price.

Additional

Volunteering: Vadtaldham Python classes, Franklin Township Youth Council
Programming: Python, Java, JavaScript, C, C++, SQL, R, CSS, Swift, Assembly
Tools: React.js, Node.js, Django, Angular, Spring boot, Java EE, AWS, Git, MongoDB,
Campus Involvement: Rutgers Mobile App Development Club, Undergraduate Student Alliance of Computer Scientists, Business Information Technology Society