NISHCHAY PATEL

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EDUCATION

Georgia State University - Atlanta, GA   *May 2025*
Bachelor of Science in Computer Science, Certification in Data Science
GPA: 3.92
Relevant Coursework: Software Engineering, Machine Learning, Database Systems
Certifications: Amazon Web Services Specialization, Databricks Engineering, GSU - President's List, NASA ATX

SKILLS

LANGUAGES: Python, JavaScript, HTML, CSS, Java, SQL, C, TypeScript
FRAMEWORKS: Django, React, Node.js, Git, Flask, Lang-chain
TOOLS: Amazon Web Services, Microsoft Azure, REST API Services, Power BI, TensorFlow, Firebase

EXPERIENCE

AI Software Engineering Internship   July 2024 – Present
Resilience, Inc   **Remote, U.S.A**
- Spearheaded the multimodal approach for emotion recognition in speech using audio features and words with neural network and NLP.
- Advanced the CNN models by implementing hyperparameter tuning with Bayesian Optimization and transformer encoder network, improved recognition accuracy by 16%.
- Improved the preprocessing of audio by conducting validation and normalization techniques, which increased the efficiency of data by 25%.

Software Engineering Intern   May 2024 – July 2024
Hawkeye Hotels and Management   **Remote, U.S.A**
- Implemented generative AI model using Python to automate the creation of multi-paragraph hotel reviews based on customer ratings from over 30 service categories.
- Functionalized a cloud-based infrastructure on AWS to handle data processing, ensuring scalability and reliability of the review generation system, improving latency by 48%.
- Assembled the final application reducing guest review time from 1-3 minutes to under 30 seconds, increasing review completion rate by 60%

Research Analyst   September 2023 – May 2024
Evidence Based Cybersecurity Research Group, GSU   **Atlanta, Georgia**
- Engineered data cleaning and machine learning algorithms to ensure proper analysis of datasets, resulting in a 25% improvement in data accuracy for the industry clients.
- Implemented linear regression modeling to accurately forecast outcomes and identify trends within targeted markets, obtaining prediction accuracy of 86%.
- Optimized data analytics processes using Python, enhancing research quality by 30% and reducing analysis time by 40%

PROJECTS

Career Swipe - Chief Software Engineer *[Python, Django, AWS, Firebase Services, Google Generative AI]*   *January 2024 – Present*
- An advanced AI powered job-hunting site, spotlighting the employee to various recruiters, initially focused to be used at career fair.
- The web service also provides resume insights and improvement suggestions to the job seeker improving their chance to stand out by 28%.

Home Swap – Elo Stack - Backend Engineer *[AWS, JavaScript, React, Node.js, Express, MongoDB, Stripe]*   *June 2024 – Present*
- An application revolutionizing home exchanges by offering a secure platform for listing, discovering unique properties globally, and fostering sustainable travel and cultural exchange.
- Comprised with advanced search and filtering capabilities, reducing query response times by 33% and improving user experience.

Prediction on Point - HACK-Georgia Institute of Technology - Software Engineer *[Python, Swift]*   *October 2023*
- A prediction application, supported by Support Vector Machine model, that predicts the winner of Premier League game with 79% precision.
- The machine learning algorithm operates on 10 years of data which includes 20+ game factors and betting data from 6 betting websites.

Movie Quote Search - Software Developer *[Python, OpenAI API, HTML, CSS, JavaScript]*   *June 2023 – July 2023*
- A semantic search platform developed using OpenAI's text embedding model for leveraging cosine similarity to provide precise outputs.
- The application helps eliminate the need to sift through countless alternatives and get the desired quote with 87% accuracy.

LEADERSHIP & AFFILIATIONS

- **Treasurer:** Association for Computing Machinery   *June 2024 - Present*
- **Food Volunteering:** Dream Foundation   *August 2022 - Present*
- **Badminton Club:** Member   *January 2022 - Present*
- **Hobbies:** Open-Source Contribution, Basketball, Soccer, Badminton