Dhyani Soni

(732) 433-2595 | ds2338@njit.edu | linkedin.com/in/dhyani-soni/ | github.com/dhy-ani| Edison,NJ

EDUCATION

New Jersey Institute of Technology (NJIT)   Expected Graduation Date
Bachelor of Science in Computer Science| GPA: 3.84 |Dean's List   *May 2027*

- **Albert Dorman Honors College** - Dorman's Scholar
- Recipient of Highlander Achievement Scholarship
- **Relevant Coursework**: Data Structures & Algorithms, Data Science, Linear Algebra, Internet Applications, Database System Design & Management, Programming Language Concepts

EXPERIENCE

Undergraduate Research Assistant – AI & Elder Care   Apr 2024 – Dec 2024
Department of Informatics, New Jersey Institute of Technology   *Newark, NJ*

- Conducted user interviews and qualitative research using **Otter.ai**, identifying elder-facing vulnerabilities in **online safety** and fraud.
- Collaborated on developing **AI technologies** to assist independent aging, improving safety and accessibility for elderly populations.

Undergraduate Research Assistant – AR & Cultural Storytelling   June 2025- Present
Department of Informatics, New Jersey Institute of Technology   *Newark, NJ*

- Assisting in the development of an **AR platform** that visually narrates family **jewelry stories**, preserving heritage through immersive experiences.
- Exploring ways to use **augmented reality** to foster emotional connection and cultural preservation across generations.

TECHNICAL SKILLS

Languages : Java, Python, C++, SQL, PHP, JavaScript
Frameworks & Libraries : Spring Boot, FastAPI, Firebase, Streamlit, TensorFlow (Keras), PyTorch, YOLO, OpenCV, CLIP, BLIP, FAISS
Tools & Platforms : AWS (S3, RDS), Firebase Console, Jupyter Notebook, Visual Studio Code, Anaconda, Tableau, Postman, Git/GitHub, Unity (AR Foundation, WebGL), Shopify

PROJECTS

NoteShare | *Spring Boot, React, PostgreSQL, AWS (S3, RDS), JWT*   July 2025

- Engineered a full-stack web platform that allows **students** to seamlessly **upload, search, and download** academic notes with React
- Implemented secure **authentication** and **authorization** using JWT and Spring Security, ensuring **protected user access**, role-based permissions, and safe **document management** across the platform.
- Integrated **AWS S3 for file storage** and PostgreSQL via AWS RDS to handle **scalable storage** and metadata tracking, resulting in a **cloud-ready solution** optimized for performance, security, and reliability.

AgentWeave | *Python, FastAPI, YOLO, CLIP, BLIP, FAISS, Firebase, React*   May 2025

- Developed a full-stack **AI outfit recommender** using **Pinterest scraping**, **CLIP embeddings**, **BLIP captions**, and **FAISS vector search** to deliver trend-matching fashion suggestions.
- Integrated **YOLO-based body shape detection** and a swipe-driven feedback system using **Firebase**, enabling real-time, personalized recommendations.
- Built a **React interface** with **swipe gestures** (like, dislike, save) and designed a **feedback loop** to refine **future outfit recommendations** based on user interactions.

RAISE-25 AI & Data Science Competition | *SentimentIntensityAnalyzer, ngrams, WordCloud*   Feb 2025

- Applied **NLP and ML techniques** (BERT-NER, sentiment analysis, LDA, TF-IDF clustering) to analyze AI-related news trends in education, careers, and society.
- Developed **data visualizations and trend analysis** using NetworkX, Matplotlib, and t-SNE, optimizing models and presenting findings in a professional report.

ACTIVITIES

- **Outreach Chair, Girl Up NJIT** – Led campus-wide engagement initiatives for gender equality.
- **Curriculum Manager, Lyra STEM** – Designed STEM lesson plans for high and elementary school students .
- **Treasurer, Kids Who Code** – Managed budgets and funding logistics for club operations.