Aarush Narang

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Education

University of Arizona, *Master's in Data Science* Aug. 2025 – May 2027

Shiv Nadar University, *Bachelor of Technology in Computer Science* Aug. 2020 – May 2024

Experience

Software Engineer, *HCLTech* July 2024 – July 2025

- Developed Generative AI solutions for the client.
- Integrated custom copilot with SharePoint for contextual search across 4,000+ knowledge files, reducing daily technical support tickets from about 2,300 to 1,700 and resolution time from 105 min to 25 min.
- Built safety audit sites integrated with ServiceNow and custom copilots using ITSM copilot to manage employee data.

Academic Trainee, *HCLTech* Jan. 2024 – July 2024

- Developed and deployed Sales KPP web application for tracking sales targets and achievements, managed by HR, PMO, and L2 head at HCLTech.
- WebApp tracked and analysed relevant performance metrics, such as sales revenue and annual deals closure
- Used React.js for frontend, C# for SQL DB integration, Node.js for auxiliary server-side scripting, MS SQL Server as Backend DB.

Web Developer Intern, *Carrier* May 2023 – July 2023

- Designed and developed Account Payable Management System and Ticket Tracker web applications for the sales team using HTML, CSS, JavaScript, jQuery, jQWidgets.
- Integrated chatbot automating FAQs, boosting user engagement by 35% and cutting support queries from about 450 to 280 per week in Q1.

Technical Intern, *PricewaterhouseCoopers* May 2022 – Sep. 2022

- Acquired practical experience in Golang, Python, Neo4j and REST API models.
- Implemented methods to extract raw data from a CNCF, built a Graph Database Model, and improved data retrieval speed and enhanced system scalability to manage 1000+ employee records.

Projects

FaceForge Attendance System | *Python, HTML, CSS, React, Tailwind CSS, PostgreSQL*

- Developed the attendance system using Python and OpenCV for educational and corporate settings.
- Used dlib to create facial templates for recognition and integrated a proxy detector using object detection.
- Developed the UI of the attendance system using React, Tailwind CSS.
- Maintained attendance records on PostgreSQL.

Self-Correction for Human Parsing Model | *Python, Git*

- Compared the SCHP model with other single-person human parsing state-of-the art methods.
- Evaluated the model on three benchmarks: Look into Person (LIP), Active Template Regression, and Pascal Part.
- Achieved 84.7% mlou on LIP dataset, which is 2.3% higher than the result reported in the original SCHP paper.
- Tackled the challenges of human parsing tasks in label noise scenarios.

ChatGPT Plagiarism Detector | *Python, EasyOCR, APIs*

- Developed plagiarism detection tool using ChatGPT API & paraphrasing API.
- Implemented cosine similarity with vector space model to detect paraphrased text.
- Performed OCR with EasyOCR; tested on 30 docs with 93% accuracy.

Research Work

- Presented the paper titled "Analyzing the Efficacy of Large Language Models: A Comparative Study" with a team of two co-authors at the *35th International Conference on Database and Expert Systems Applications (DEXA 2024)*, held at Naples, Italy (Aug'24). Research Paper Link

Technical Skills

Languages: C++, Python, Java SQL, Go
AI/ML Tools / Frameworks: PyTorch, TensorFlow, OpenCV, dlib, EasyOCR, GitHub Copilot
Web Development: C#, HTML, Tailwind CSS, Bootstrap, React.js, Node.js, jQuery, jQWidgets
Databases: PostgreSQL, MySQL, MongoDB
Operating Systems: Windows, MacOS, Linux

Achievements

- Secured **Dean's List Award** as top 10% performing student at Shiv Nadar Institute of Eminence (Fall'20, Spring'21).
- Specialization in Data Science and Big Data Analytics, Shiv Nadar Institute of Eminence (May'24).