Kunj Joshi

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Education

Northeastern University, Khoury College of Computer Sciences — Expected 2026
Master of Science in Computer Science — *Boston, MA*
Coursework: Algorithms, Cybersecurity

Pandit Deendayal Energy University — May 2023
Bachelor of Science in Information Technology — *Gandhinagar, India*
Coursework: Operating Systems, DBMS, Computer Networks, Cybersecurity, Machine Learning, Web Development

Technical Skills

Languages: Python, Java, Javascript, C, C++, CUDA, HTML, CSS
Frameworks: React.JS, Angular, Node.JS, Express.JS, Django, Bootstrap, Tailwind CSS, Hadoop, Spark, Hibernate, LangChain
Databases: MongoDB, MySQL, Redis, PostgreSQL, Cassandra, Oracle
Tools & Platforms: Google Cloud (GCP), Git, Docker, AWS, LLMs, Visual Studio Code, Postman, Jira, AGILE, XCode, Open Source Contributions

Professional Experience

Nirnaya Systems and Solutions Pvt Ltd | *Junior AI Developer* — November 2023- July 2024
- Improved transformer-based NMT and QA models, increasing accuracy by 12.65 BLEU points using LoRA and PEFT.
- Boosted sentence similarity vector scores by over 78% on live datasets for efficient Retrieval Augmented Generation using Python Pandas Dataframe, CSV file formats and vectorization using VectorDB
- Spearheaded Document Layout Analysis and Image Noise Reduction Solutions, improving existing models by 12.34% in Border Detection Accuracy and Image Smoothening and deployed using FastAPI Backend and ReactJS Frontend, with quantized model deployment.

Rewardwise | *Fullstack Developer* — March 2023 - November 2023
- Led backend development for Rewardwise app using Python web framework Django and ReactJS; built modules for 4 key features: Ticket Booking, Sales Analysis, Rewards/Offers and Memberships.
- Optimized user data extraction from an SQL-based database by implementing efficient query techniques and leveraging advanced data attributes such as time, location, and numerical metrics, enabling seamless processing for over 100,000 users.
- Implemented controlled CI/CD deployment with GitHub Actions on AWS EC2, using YAML to deploy with less than 0.3 ms latency.

Projects

ImageEditor | *Java, Java Swing, Image Manipulation, Data Structures, Algorithms* — October 2024 - December 2024
- Developed an Image Editing Software utilizing the Java MVC (Model-View-Controller) design pattern, incorporating 15 advanced editing functionalities such as flipping, cropping, brightness adjustment, and filters.
- Analyzed the histograms of processed images for all input images based on RGB values to extract and evaluate 6 distinct features, including color equalization, darkness levels, thresholding, and contrast.
- Created a Graphical User Interface (GUI) using Java Swing, enhancing user responsiveness and usability by 70%, ensuring a more intuitive and efficient user experience.

Rental Radar | *Python, Flask, ReactJS, D3.JS, Web Development, AWS, Software Development* — June 2024- August 2024
- Used Prediction Models to determine Rate and Rent Appreciation scoring over 95% accuracy using features such as YoB,Square Feet, Number of Beds and Number of Baths.
- Curated Amortization Graphs over different statistics using 67 different features, achieving over 86% accuracy; using D3.js
- Designed using Flask API Calls for Backend and REST API Management for more than 55 APIs, ReactJS for Web Based Frontend, and Dynamic Frontend and hosted upon Linux Server with containerization using Docker.