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, Javascript, C, C++, Swift, Java, Typescript, GoLang, R, Ruby, Scala, 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

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 Pandas Dataframe and CSV file formats
- Spearheaded Document Layout Analysis and Image Noise Reduction Solutions, improving existing models by 12.34% in Border Detection Accuracy and Image Smoothening.

Rewardwise | *Fullstack Developer*　March 2023 - November 2023
- Led backend development for Rewardwise app using Django; built modules for 4 key features: Ticket Booking, Sales Analysis, Rewards/Offers and Memberships.
- Developed and published Android/iOS frontend on Playstore using React Native and improved platform responsiveness by 80%
- Implemented controlled CI/CD deployment with GitHub Actions on AWS EC2, using YAML to deploy with less than 0.3 ms latency.

Projects

Rental Radar | *Python ML, Flask, Web Development, AWS*　June 2023- August 2023
- Used Machine Learning 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.
- Worked on over 100,000 datapoints and 55 Features to develop accurate machine learning models. Used techniques such as Feature Extraction and Principle Component Analysis to ensure accuracy.
- 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.

SoCKit | *Python, Linux, Cybersecurity, Penetration Testing, Network Engineering*　June 2022- December 2022
- Developed an automated cybersecurity tool integrating eight distinct modules, streamlining processes under a unified interface; enhanced efficiency for task execution and reduced manual intervention time by approximately 30 hours monthly.
- Launched and deployed over 25 Internal Workstations in a controlled Internal Network for Regressive Testing, leading to an efficient Time Complexity Analysis of different custom algorithms created.
- Included features such as Malware Analysis, Injection Analysis, Network Analysis, Website Analysis, Keylogger, Cryptography,Bruteforcing and Incident Recovery. Detected Phishing Attempts at more than 94% Accuracy in Website, Injection and Malware Analysis.