Khimraj Suthar

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EXPERIENCE

- **Webb.ai** — Remote
  Software Engineer, LLM — *February 2024 - Present*
  - Focusing on advancing the automation of troubleshooting processes for DevOps/SRE issues in cloud environments, leveraging expertise in deploying and optimizing LLM agents.

- **Ivy Homes** — Bengaluru, IN
  Software Engineer, Machine Learning — *June 2021 - November 2023*
  - Steered the development of OCR, Entity Extraction, Document Classification, Text Clustering, Pricing(Valuation) Model, Liquidity Model, and intuitive Chatbot for real estate using ChatGPT.
  - Implemented Django-based Pricing Model with VPN security for safeguarding sensitive internal data.

- **Skillbee** — Remote
  Machine Learning Intern — *April 2021 – June 2021*
  - Developed solutions for Job Recommendation and Relevance challenges.
  - Enhanced CV relevance on the platform from 65% to 93% through deep learning-based document classification.

- **Amazon** — Remote
  Software Development Engineer Intern — *May 2020 – July 2020*
  - Designed, developed and deployed a responsive lender runbook website for Amazon Pay Later Service on AWS.
  - Achieved an 80% reduction in standard partner materials' preparation and exchange time.
  - Successfully implemented code in production, resulting in a full-time job offer.
  - Secured the top position in a 3-day team hackathon with 30+ participants.

SKILLS

- **Proficient**: Python | SQL | Algorithms | Data Science | EDA | AI | Machine Learning | Deep Learning | NLP | Computer Vision | AWS | GCP | Tenserflow | Keras | Scikit-Learn | Numpy | Pandas | Matplotlib
- **Familiar**: C | C++ | HTML | CSS | Java | JavaScript | Bootstrap | JQuery | GitHub | Information Retrieval | Generative AI | LLM | LangChain | RAG | CI/CD

PUBLICATIONS

- **Paper: Human Activity Recognition using Accelerometer and Gyroscope Data from Smartphones** : Khimraj, P. K. Shukla, A. Vijayvargiya and R. Kumar, "Human Activity Recognition using Accelerometer and Gyroscope Data from Smartphones" 2020 International Conference on Emerging Trends in Communication, Control and Computing (ICONC3), India, 2020.
- **Paper: Voting-based 1D CNN model for human lower limb activity recognition using sEMG signal** : Vijayvargiya A, Khimraj, Kumar R, Dey N. Voting-based 1D CNN model for human lower limb activity recognition using sEMG signal. Phys Eng Sci Med. 2021 Nov 8. doi: 10.1007/s13246-021-01071-6. Epub ahead of print. PMID: 34748192.

PROJECTS

- **Indoor Localization For 5g And Beyond(BTech Thesis Group Project)**:
  - Pioneered a groundbreaking MOIL deep learning method for indoor localization through CSI data analysis.
  - Achieved remarkable localization accuracy with mean distance errors of just 0.01m in Line-of-Sight (LOS) and 0.02m in Non-Line-of-Sight (NLOS) scenarios, surpassing existing techniques by an impressive 96%.
- **Automated Tweets Report**:
  - Developed a Python script to gather tweets based on specific keywords and mention a designated Twitter handle.
  - Conducted sentiment analysis for each tweet, providing scores within the range of [-1, 1].
  - Produced comprehensive Excel reports with 5+ columns and implemented automatic email delivery.
  - Deployed the solution on AWS EC2, employing cron jobs to execute the script at scheduled times on a daily basis.

EDUCATION

- **Malaviya National Institute of Technology (MNIT)** — Jaipur, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 7.70/10 — *August 2017 - June 2021*

COURSEWORK

- **Undergraduate**: Design and Analysis of Algorithms | Data Structures and Algorithms | Database Management System| Operating System | Computer Networks | Digital Image Processing | Natural Language Processing | Object-Oriented Analysis and Design | Deep Learning | Advanced Topics in Databases | Concurrent and Parallel Programming | Software Engineering | Computer Organization and Microprocessors | Computer Architecture | Compiler Design | Systems Programming
- **Additional**: Machine Learning | Mathematics for ML | Deep Learning Specialization | TensorFlow Specialization

ACHIEVEMENT

- Rated 1993 on Codechef and 1766 on LeetCode(Solved 500 problems).
- Secured 582/4700 rank in Round F and 608/6200 rank in Round H of Google Kick Start coding competition 2020.