Khimraj Suthar

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Experience

- **Ivy Homes** — Bengaluru, IN
  Senior Software Engineer, Machine Learning — *June 2021 - Present*
  - Working on Entity Extraction, Document Classification, Text Clustering, Pricing(Valuation) Model.
  - Deployed Pricing Model using Django and implemented VPN to protect internal data.

- **Skillbee** — Remote
  Machine Learning Intern — *April 2021 – June 2021*
  - Worked on Job Recommendation and Relevance problems.
  - Worked on Deep Learning-based document classification which improved the CV relevance on the platform from 65% to 93%.

- **Amazon** — Remote
  Software Development Engineer Intern — *May 2020 – July 2020*
  - Designed and developed a fully responsive lender runbook website for Amazon Pay Later Service and deployed on AWS.
  - Achieved an 80% reduction in the preparation and exchange time of standard partner materials.
  - All code was reviewed and pushed to production and received a full-time job offer.
  - Attained the first position in a 3 days team hackathon among 30+ participants.

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)**:
  - Proposed a novel MOIL deep learning approach for indoor localization using CSI data.
  - The localization accuracy in the metric of mean distance error is within 0.01m in LOS and 0.02m in the NLOS scenario, which is 96% more precise than existing techniques.
- **Automated Tweets Report**:
  - Prepared a python script to collect tweets having some particular keywords and tagging specified Twitter handle.
  - Performed sentiment analysis on each tweet to award a score in range [-1, 1].
  - Generated a detailed Microsoft Excel report having 5+ columns and enabled service to send this report in an email.
  - Deployed on AWS EC2 service and used cron jobs to run the script at the scheduled time 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*

Skills

- **Proficient**: C | C++ | Python | HTML | CSS | SQL | Tenserflow | Keras | Scikit-Learn | Numpy | Pandas | Matplotlib | EDA | Machine Learning
- **Familiar**: Java | JavaScript | Bootstrap | JQuery | GitHub | AWS | Information Retrieval | AI | Deep Learning | Computer Vision | NLP

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
- **Additional**: Machine Learning | Mathematics for ML | Deep Learning Specialization | TensorFlow in Practice 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.