CHINMAY D. PAI

Contact Information

C-601, Gokul Plaza
Thakur Complex, Kandivali East
Mumbai - 400101, India

+91 982 044 6232
chinmaydpai@gmail.com
https://github.com/Thunderbottom

Research Interests

Computer vision, image processing,
natural language processing, reinforcement learning, statistical learning

Education

WIEECT, Mumbai University

BE Computer Engineering — **August 2014 – July 2018**

- CGPA: 7.32/10 (2 years: 7.96/10).
- Thesis title: *Portable aid system for the visually impaired.*

Publications & Preprints

K. Potdar, T. Pardawala and C. Pai. "A Comparative Study of Categorical Variable Encoding Techniques for Neural Network Classifiers". In *International Journal of Computer Applications*, Vol. 175, no. 4, pp. 7-9, October 2017.

K. Potdar, C. Pai and S. Akolkar. "A Convolutional Neural Network based Live Object Recognition System as Blind Aid". *preprint*, arXiv:1811.10399.

Professional Experience

Scrapsheet Inc., Mumbai, India

Machine Learning Intern — **July 2018 – August 2018**

Worked on developing a neural network classifier API for obscenity detection and toxic comment classification.

Frappé Technologies Pvt. Ltd., Mumbai, India

Engineer — **August 2018 – present**

Responsible for the research and development of new features and improvements for the Frappé Framework and ERPNext.

Technical Skills

Programming: Python, R, Java, VueJS, Linux shell scripting.

Tools: Pandas, Numpy, Scipy, TensorFlow, Git, Docker, Ansible, Kubernetes, LaTeX.

Database: MySQL/MariaDB, Redis, MongoDB.

Projects

Portable aid system for the visually impaired: Developed a portable device aimed at serving as an audio-visual system for blind aid using deep learning. The invention is "patent-pending" under The Patents Act 1970, India (Ref. No.: 201721029585).

FreeBSD thread scheduling & memory management: Designed a FreeBSD kernel scheduling algorithm based on Linux CFS scheduler for improved context switching and memory management.

PC specification compatibility system: Developed an application to assist users in building computer systems through a recommender system using K-nearest neighbors algorithm.

Appointment management system: Implemented an interactive hospital appointment scheduling and management system using Bootstrap, JavaScript, Python, and SQL.

NoSQL injection tool: Worked on an injection tool to demonstrate a NoSQL attack using VueJS application, ExpressJS server, axios HTTP client, and MongoDB.

Extracurriculars & Responsibilities

- **Coursera Stanford Machine Learning** certification.
- **Coursera deeplearning.ai Deep Learning** specialization certification.
- Conducted workshops on Web Development and Machine Learning at the Institute of Chemical Technology (ICT), Mumbai and Watumull Institute (WIEECT), Mumbai.
- Participated in Hackathon at DJ Sanghvi College of Engineering (Jan 2017). Built Resilec, an Android application with a NodeJS server aimed at dealing with medical emergencies offline.
- Participated in Hackathon at Don Bosco Institute of Technology (Mar 2017). Built a Reverse Dictionary using Natural Language Processing and K-nearest neighbors algorithm.
- Actively maintaining a fork of the Linux Kernel with custom patches.