Chinmay D. Pai

Contact Information

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Research Interests

Computer vision, salience detection, pose estimation,
latent semantic analysis, factual knowledge gathering, statistical learning

Education

WIEECT, Mumbai University
BE Computer Engineering **August 2014 – June 2018**

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

Publications

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. Accepted at *ICACCT 2018, IEEE Conference*, (unpublished).

Professional Experience

Scrapsheet Inc., Mumbai, India
Machine Learning Intern **July 2018 – present**

- Developed a neural network classifier API for obscenity detection.
- Worked on a toxic comment classification algorithm.

Technical Skills

- Programming: Python, R, Java, Linux shell scripting.
- Tools: Pandas, Numpy, Scipy, TensorFlow, Git, Docker, Kubernetes, LaTeX.
- Database: SQL, 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 thread scheduling algorithm for improved context switching and memory management.

PC specification compatibility system: Developed a PCPartPicker inspired application to assist users in building a computer systems 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.
- 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.