

CURRICULUM VITAE

PERSONAL INFORMATION

Priyanka Chaudhary



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Sex Female | Date of birth 19.06.1990 | Nationality Indian

STUDIES

November 2017 – May
2018

Master Thesis, Erasmus-Programm, ETH Zürich

Floodwater-level estimation through semantic image interpretation

The focus of this thesis is to use images collected from social media of various flood events and use them to quantify the flood. In this thesis we use different objects of known dimensions partially submerged in flood water to predict floodwater-level.

Contributions made by the thesis work:

- Design and implementation of annotation strategy to build models for floodwater-level prediction.
- Dataset collection, processing and annotation task. The processing of images details conversion to images to same format, detecting and removing duplicates from dataset, renaming all images for better handling.
- Implementation of pipeline to convert annotated images to JSON format for efficient storage and computation.
- Implementation of deep learning framework for Flood-level prediction per image, Fine grained classification and Continuous flood-level regression experiments.
- Discussion of Flood-level prediction per image, Fine grained classification and Continuous flood-level regression experiments performed and their quantitative and qualitative results.

October 2015 – September
2018

Master in Informatics, Technische Universität München

Grade: 1,5 – Degree completed

Practicum/Lab

- **Perception and Learning** in Robotics and Augmented Reality Practical and worked in OpenCV, TensorFlow for Deep Learning, PointClouds Library for 3D object Detection and 3D Pose Estimation.
- **Data Mining Lab:** Worked on Online News Popularity Dataset of Mashables from UCI repository. We did crawling, cleaning, analysing of dataset. Also did sentiment analysis, model building for improving the popularity of articles.

Seminar

Tutor or Teaching Assistant of Project Organization and Management in Software Engineering

Inter Disciplinary Project

- **Employer Branding Monitor:** Worked on Java for Platform scraping and Python for Sentiment Analysis of the posts.
- Used technologies like Git, JIRA and Scrum Model

Courses

Tracking and Detection in Computer Vision, Security Engineering, Business Analytics, Protein Prediction for Computer Scientists, Geometric Modelling and Character Animation, Scientific Visualization, Auction Theory and Market Design, Project Organization and Management in Software Engineering

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Aug 2009 - May 2013

Bachelor in Software Engineering, Delhi Technological University

Formerly Delhi College of Engineering

Aggregate marks 75.27% (First Class with Distinction)

- With subjects like Data Structures, Operating System Design, Algorithm Design & Analysis, Artificial Intelligence, Computer Graphics, Compiler Design, Advanced Computer Architecture etc.
- **Embedding a reversible watermark in an image:** My aim was to embed a watermark in an image before sending so that it can be verified by the receiver that right image has been received and not a tampered one.
- **Image morphing** – To implement an image morphing tool.
- **Handwriting Recognition** - My objective was to identify handwritten characters with the use of neural networks.
- **Tower defense game based on Bee Algorithm** – In this project I used Bee Algorithm for the purpose of shooting
- Internship at Bharat Heavy Electrical Limited: development of a sub-contracting system to automate the manual sub-contracting system and store records and also to decide who will be assigned the contract. It was designed in PHP for front end and MySQL for back end.
- Internship at Otis Education Consultancy: to design assessment solutions for evaluating various attributes like speed, accuracy and time taken in a test. Designed front end in PHP, Javascript, HTML, CSS and back end in MySQL.

WORK EXPERIENCE

1 Apr 2016 – 31 Oct 2017

Osram GmbH

Parkring 33, 85748 Garching, Germany

Part time work at Person Detection Project, Computer Vision (Research & Development)

Work & Responsibilities:

- Research and development of cross platform GUI using WxPython
- Translation of MATLAB code into C++.
- Installation and configuring embedded boards like Nvidia TX1, TX2 and linux based laptops
- Annotation of dataset
- ECO tracker performance comparison with other trackers
- Helped in performance benchmarking of different prototypes
- Research and creation of standalone executable for the project using PyInstaller
- Help and support of Computer Vision scientists in various tasks.

18 Jun 2013 – 5 Jun 2015

Samsung Electronics, India

as Software Development Engineer at Software Research Institute for Mobile Business

Projects

Samsung Android Smartphones and Tabs based on Qualcomm and Exynos chipsets on Android versions Jelly Bean, Jelly Bean Plus, Kitkat and Lollipop.

Work & Responsibilities:

- Worked on Android, C, Data-Structures, ARM processor platform.
- Worked with various flash memories (NAND, NOR, One NAND).
- Increasing the performance of phones having low RAM at Block IO and driver layer.
- Enhancement and porting of File System (FAT, EXFAT, FUSE, SDCARDFS, EXT4) on Samsung mobile's proprietary platform.
- Development of file system API's (Read, Write, Mount, Un Mount, Unlink, Copy, Seek etc.)
- Maintenance of MMC (internal EMMC and external MMC card) driver code in Linux kernel.
- Creation and updating of Partition Information table in mobile phones. Modification of memory map according to the memory requirements of the system.
- Involved in bug fixing issues related to file system (FAT, EXFAT, FUSE, SDCARDFS, EXT4), issues related to memory card file system (FAT file system).

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- Debugging of crash and kernel panic generated during testing of mobile features and analyzing their RAM Dump with the help of RDX tool, Trace 32.
- Handling of application requests to file system for any I/O request.
- Code optimization of file system operations for better performance while reading and writing of file.
- Resolving issues related to file system automation power on-off testing.

FURTHER EDUCATION

April 2007 – March 2008

All India Senior School Certificate Examination

Kendriya Vidyalaya Sector VIII R K Puram, New Delhi

- Aggregate marks **90.8%**
- Physics, Chemistry, Mathematics - **93.66%**
- Second in CLASS XII (CBSE) – Received Certificate of Excellence – Smt. Shantha & Major Nanjundiah Award

April 2006 – March 2007

All India Secondary School Examination

Kendriya Vidyalaya Sector VIII R K Puram, New Delhi

- Aggregate marks **92%**
- Mathematics 96/100
- Science 96/100
- Fourth in Class X (CBSE) - Received Certificate of Excellence – Smt. Shantha & Major Nanjundiah Award

PERSONAL SKILLS

Mother tongues

Hindi, English (TOEFL 104 of 120)

German

A2.2 (Common European Framework of Reference for Languages)

Extra-Curricular

- Worked for Help Age India - organized awareness campaign and assisted in raising funds
- Completed 1st Year in Bharatnatyam with marks in Distinction