Ashish Manmode

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EDUCATION

IIT KHARAGPUR

DUAL DEGREE (M.TECH+B.TECH)
M.Tech in Visual Information
Processing and Embedded Systems
B.Tech in Electronics
Apr 2017 | Kharagpur, India
Cum. GPA: 8.40/10

NAVODAYA VIDYALAYA

Higher Secondary Apr 2011 | Wardha, India Score: 94.4%

LINKS

Github:// ashmanmode LinkedIn:// ashmanmode Web:// ashmanmode.github.io

COURSEWORK

GRADUATE

Parallel & Distributed Algorithms Advanced Graph Theory Digital Image Processing (Practicum Included) Pattern Recognition & Image Understanding

UNDERGRADUATE

Algorithms I and II Speech & Natural Language Processing Data Structure & Object Representation Machine Intelligence & Expert Systems Probability & Stochastic Processes Matrix Algebra

SKILLS

PROGRAMMING

Over 5000 lines: C • C++ • Python

Over 1000 lines:

PHP • JavaScript • Matlab

Java • Python • Scala • ATEX

Familiar:

MySQL • Google BigQuery

OpenCV • Unity

EXTRA CURRICULAR

Inter-Hall Sketching Competition Gold [2015] National Students Space Challenge'13 Subhead [2013]

EXPERIENCE

SAMSUNG RESEARCH INSTITUTE | SENIOR SOFTWARE ENGINEER

Jul 2017 - present | Banglore, India

- Building User Profile and Demographics features based on Smartphone Usage
- Designing and building Contexual Recommendation Platform for services

INTERNSHIPS

IBM INDIA | EXTREME BLUE INTERN

May 2016 - Jul 2016 | Banglore, India

- Built a distributed client Server Model on Spark for handling large sized chips
- Graph Processing functionalities like path between nodes using Google Pregel

TRINITY COLLEGE DUBLIN | VISITING RESEARCH STUDENT

Nov 2015 - Dec 2015 | Dublin, Ireland

- Constructed a virtual 3D model of the college with Depth Based Rendering
- Occlusion detection for real objects using Google Tango Project

GRAY ROUTES INNOVATIVE DISTRIBUTIONS | SOFTWARE INTERN

May 2015 - Jul 2015 | Mumbai, India

- Implemented functionalities using google maps API and the direction service
- Google BigQuery was used for big data parallel query processing

PROJECTS

DEEP NEURAL NETWORK BASED SPEECH SYNTHESIS

Jul 2015 - Apr 2017 | IIT Kharagpur

Developed a TTS Engine by mapping linguistic input features to acoustic output features on DNN. It gave better performance than conventional HMM TTS System

PLAGIARISM DETECTION USING NLP TREE KERNEL

Jul 2015 - Nov 2015 | IIT Kharagpur

Trained SVM using subtree matching techniques on abstract syntax tree & KL Divergence in the language model generated using in-lined codes, gave 78% accuracy

FACE RECOGNITION USING 2D-PCA

Jul 2015 - Nov 2015 | IIT Kharagpur

Analyzed 2D-PCA based feature extraction which gave 95.6% accuracy on face recognition and compared the computational efficiency of 2D-PCA over PCA

IMPOSTER DETECTION USING KEY STROKE DYNAMICS

Jul 2015 - Nov 2015 | IIT Kharagpur

Determined the multivariate Gaussian distribution by using the hold times and the latency periods of the keystrokes. Achieved accuracy of 75% in user detection

CONSTRUCTION OF 3D MODELS FROM PANORAMIC MOSAICS

May 2015 - Jul 2014 | IIT Kharagpur

Designed a interactive tool for 3D reconstruction from panoramic mosaics. The problem was solved as a least square problem for hard and soft constraints

AWARDS

2015	Rank 108 th	ACM-ICPC Asia, Chennai
2011	Best Exhibit	98 th Indian Science Congress, Chennai
2008	Top 10	XI National Mathematics Talent Competition