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:// **ashishmanmode.in**

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 • LaTeX
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 | Lead 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 108th	ACM-ICPC Asia, Chennai
2011	Best Exhibit	98th Indian Science Congress, Chennai
2008	Top 10	XL National Mathematics Talent Competition