

Malladi Deepak Kumar

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Education

Degree	Institute	Stream	Performance
MS (2012-16)	IIIT – Hyderabad	Natural Language Processing, CS	8.0/ 10 (CGPA)
B. Tech (2008-12)	IIIT – Hyderabad	Computer Science and Engineering	8.0/ 10 (CGPA)
Senior Secondary	Sri Sai Vikas Junior College	MPC	93.8 %
Secondary	Sri Gowthami Public School	SSC	92.5 %

MS Thesis

- Context Based Morphological Analysis - [Download Link](#)
"Built a ML based morphological analyzer for Indian language which works in a sentential context. Earlier efforts were based on rules and doesn't take context into consideration."
Advisors: Dr. Dipti Misra Sharma, Prashanth Mannem

Professional Experience ([Linkedin Link](#))

- Backend Architect at iB Hubs (Feb 2014 – Present)
 - Built commonly used modules used for various projects/startup that iB Hubs supports
 - Users/Groups/Notifications/Leaderboards/etc as a service
 - Deployed several microservices to AWS cloud
 - Extensively used serverless architecture for microservices
 - Adaptive Engine for Learning
 - Developed a learning framework where 3rd parties can host their course content which is consumed by end users
 - Deployed an e-Learning system in multiple universities that's been simultaneously used by more than 3000 users
 - Works in low computation devices as well, hence can be easily deployed and scaled
 - Technical challenges faced: Designed architecture such that the software can be deployed in low computation devices (RAM: 1GB, CPU: 4x ARM Cortex-A53, 1.2GHz). Approximately, server can handle 30-35 concurrent requests in such devices.
 - Gamification service
 - Developed backend related code to create matches/tournaments
 - Included gamification features which can be plugged into any other game as well
 - Transparency framework
 - iB Hubs supports an NGO – Make the World Wonderful (MTWW).
 - Provided technical assistance to MTWW which enables them to ensure that their system is 100% transparent
 - Kossip
 - Conducted a daily online competition for consecutive 125 days
 - Handled traffic of over 3000 members
 - Trained more than 100 people in technical aspects
- Technical Analyst at VedaSemantics, NLP/TextAnalytics startup (July 2013 – Jan 2014)
 - Worked on

- Topic-Theme Identification
- Summarization
- Intent Analysis
- Research Assistant in Language Technologies Research Center (LTRC), IIIT-H
- Developed and Maintained websites for international conference (COLING-2012) workshops.

Technical Skill Set

Programming Languages	C, C++, Java, MATLAB
Scripting Languages	Python, Shell scripting
Web Technologies	HTML, CSS, PHP, Cgi-Bin
Operating Systems	GNU/LINUX, Windows XP/Vista/7
Frameworks	Django, Django Rest Framework, Flask, Web2py, Zappa
Cloud	AWS, GCP
Database Management	MySQL, Postgres, Redis
Miscellaneous	Microservices, Latex, Vim, SVM Tools, Weka, Git, NLTK

Publications ([Google Scholar Link](#))

- Statistical Morphological Analyzer for Hindi - IJCNLP, 2013
DK Malladi, P Mannem
- Context Based Statistical Morphological Analyzer and Its Effect On Hindi Dependency Parsing – SPMRL, EMNLP, 2013
DK Malladi, P Mannem
- Ensembling Various Dependency Parsers: Adopting Turbo Parser for Indian Languages - MTPIL, COLING, 2012
Puneeth Kukkadapu, **DK Malladi**, Aswarth Dara
- Improved and Adaptable Statistical Morph Analyzer (SMA++)
S Srirampur, **DK Malladi**, R Mamidi
- A Novel Approach Towards Building a Portable NLIDB System Using the Computational Paninian Grammar Framework - IALP, 2012
Abhijeet Gupta, Arjun Akula, **Deepak Malladi**, Puneeth Kukkadapu, Vinay Ainavolu and Rajeev Sangal

Relevant Course Work

Natural Language Processing	Computational Linguistics
NLP Applications	Computer Programming
Data Structures & Algorithms	Database Systems
Operating Systems	Distributed Systems
Algorithms	Computer Networks

Academic Achievements

- Recipient of IIIT Deans scholarship award for academic excellence.
- 'Young Genius Award' for achieving State 2nd Rank in C.V.Raman Test.
- State 4th in Regional Maths Olympiad (RMO).
- Distinction in both Maths & Science Macmillan Talent Test, University of South Wales.
- Selected for Under-Graduate Course in Nanyang Technological University, Singapore.

Major Projects

- **Dialog Systems**
Advisor: Dr. Rajeev Sangal
 Built a generic frame based Dialog System which is adaptable for different domains. The natural language query is taken as input and it is converted to a SQL query.
Tools Used: Python, HTML, CSS, Cgi-Bin, Javascript.
- **Machine Translation Evaluation Interface**
Advisor: Dr. Sriram Venkatapathy
 It is an Evaluation Interface which takes feedback from various users and based on that it evaluates the correctness of the Machine Translation.
Tools Used: PHP, MySql, HTML, CSS.
- **Web Proxy Server**
Advisor: Dr. Bezawada Bruhadeshwar
 Developed a TCP/UDP server-client browser interaction mechanism that serves the HTTP requests using Multi-threaded programming.
Tools Used: Java, Socket Programming.
- **Software Library**
Advisor: Dr. Vikrampudi
 Designed a interface where we can upload and download softwares. Additional features such as listing the software according to its type, search option are also implemented.
Tools Used: Web2py

Extra Curricular Activities

- Campaigning-Coordinator for Felicity 2011, Annual Techno-Cultural fest in IIIT-Hyderabad.
- Represented our batch in IIIT-Hyderabad Chess Tournament and secured 3rd place.
- Semifinalists in Caroms Tournament conducted in IIIT-Hyderabad.