Malladi Deepak Kumar

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Education

Degree	Institute	Stream	Performance
MS (2012-16)	IIIT – Hyderabad	Natural Langauge 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 %

Professional Experience (Linkedin Link)

- Backend Architect at iB Hubs (Feb 2014 – Present)
- Technical Analyst at VedaSemantics, NLP/TextAnalytics startup (July 2013 – Jan 2014)
- 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	Python, C, Shell Scripting, MATLAB
Web Technologies (Beginner)	React, HTML, CSS, PHP, Cgi-Bin, Web2py
Cloud	AWS (EC2, Lambda, API Gateway, RDS, Dynamo DB, Cognito)
Database Management	MySQL, Postgres, Redis, Dynamo DB, ES, Neo4J
Miscellaneous	Django, Docker, Clean Architecture/Clean Code principles, TDD

Relevant Course Work

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

MS Thesis

- Context Based Morphological Analysis - Download Link
  "Built a ML based morphological analyzer for Indian lanaguge 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

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

- Improvised 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

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 Macmilan Talent Test, University of South Wales.
- Selected for Under-Graduate Course in Nanyang Technological University, Singapore.

Major Projects (Done as part of graduation)

- **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