Akashdeep Singh Jaswal

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SUMMARY OF QUALIFICATIONS

- Strong experience in applying ML end-to-end from defining the problem, collecting/crowdsourcing the required data, research on state-of-the-art techniques/models, and to production ready systems consumable by user.
- Specialization in NLP, deep learning, chatbots, working with large amounts of unstructured data, and infusing AI in products.
- Innate ability to lead, simplify and communicate clearly with team members, stakeholders and end users.
- Technical: Python, SQL, Hive, Spark, Tableau, ML packages (Sklearn, Tensorflow, Keras)

EDUCATION

University of Washington, Information School, Seattle, WA (*3.93/4.0*)   *June '17*
Master of Science in Information Management -- Specialization in Data Science & Analytics. Relevant Coursework: Data Science, Machine Learning & Econometrics, Advanced Data Visualization, Information Architecture, Data Scaling, Applied Social Statistics.

Osmania University, Hyderabad, India (*86.85%*)   *June '14*
B.S. Computer Science and Engineering -- Relevant Coursework: Data Structures, Software Engineering, Database Management Systems, Artificial Intelligence, Data Mining, Information Security, Information Storage and Management

WORK EXPERIENCE

SAP Labs, Innovation Center, Palo Alto, CA – Data Scientist II   *March '17 – Present*
- Research and development of state-of-the-art natural language models for intent recognition, entity extraction, and downstream NLU tasks in the context of enterprise/consumer grade chatbots.
- Q&A, comprehension and knowledge representation research to be able to answer questions on unstructured data.
- Engineering built models as RESTful APIs to be shipped in a production environment.
- I also directly lead all efforts on building a reusable and scalable Data Science pipeline that enables better research, data driven decision making on algorithms to deliver in production and effective communication within the cross functional global team.

Concur, Seattle, WA – Product DS Intern   *June '16 – March '17*
- Worked in the Product Intelligence team to build models for customer churn to proactively identify and mitigate attrition risks.
- Set the base using NLP and segmentation techniques to help build a product strategy for the development of a new simplified Analytics Product for Concur Customers to replace an existing 150M ARR reporting product.
- Built and automated end-to-end data pipeline for data extraction, preprocessing, mining, prediction and data visualization.

Google Inc., Hyderabad, India – Associate Account Strategist   *May '14 – Aug '15*
- Provided strategic advice and data driven insights to help advertisers maximize ROI by working closely in a consultative role.
- Worked in the Tools team to develop software solutions and data analytics for the Business Unit.

Google Inc., Hyderabad, India – Intern (Sales & Product Strategy)   *May '13 – July '13*
- Consolidated market-wide data and mined patterns to suggest optimizations and process improvement.
- Automated the analysis process and helped design a dashboard to form a sustainable solution.

ACADEMIC RESEARCH PROJECTS

Data for Economic Development - Improving access to Financial Institutions based on Mobile Cellular Data Records in Ghana
- Worked as a Research Assistant for Prof. Joshua Blumenstock to crunch terabyte scale Call Detail Records data using Spark.
- Cleaning, Anonymizing, and Visualizing data for enabling clear understanding of social and economic behavior of population.

HCUP (Healthcare Cost and Utilization Project) - Fixed Effects Econometrics (Project Link)
- Worked with Prof. Benjamin Althouse on modeling relationships between vaccination uptake and hospitalization for WA state.
- Built fixed effects model for gauging impact of vaccination within counties normalizing for demographic characteristics.

Wikitrends - Wikipedia Trend Analysis During US Presidential Elections (Project Link)
- Understanding relationships between Wikipedia and general interest on Google Trends over time for presidential elections.
- Mined extremely large messy data in the form of wikipedia log files using GraphLab Dato Distributed API on 20 node cluster.