Yuvraj Singh

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SUMMARY

Analytically minded Data Scientist with strong background in software engineering and decade of experience working with cross functional team. Prepared to lead the teams in predictive modeling project to boost strategic goals and profit.

EDUCATION

Master of Science in Engineering Management   May 2013
     Duke University, Durham, NC
Bachelor of Technology in Electronics and Communications   May 2008
     National Institute of technology, Jaipur

SKILLS

Programming and Scripting Languages: SQL, Python, PySpark, JavaScript
Analysis/Modeling tools: Pandas, Spark, R, Octave, Keras, PyTorch, Microsoft Excel
Cloud Technology: AWS, GCP
Certifications: Deep learning specialization (Stanford, Coursera), Machine Learning (Stanford, Coursera), Data Science (John Hopkins, Coursera), SQL (Stanford Lagunita)

PROFESSIONAL EXPERIENCE

Capital One, Mclean, VA
Sr. Manager, Data Science- Credit Fraud   Dec 2018 – April 2021
- Build a team from scratch team to deploy a real time model to prevent Account Take Over, potential saving $100m
- Responsible for hiring and developing 6+ associates and providing them with intent and prioritization.
- Collected information from the partners and stakeholders to identify appropriate modeling solution to the problem.

Manager, Data Science- Credit Risk,   Dec 2018 – April 2021
- Managed a team to deliver a high-level (exposure ~ 3 billion dollars) risk model for Card Customer Management.
- Managed the model from intent creation, data engineering, training, evaluation, validation, implementation and deployment. The model reduced the credit losses by 15% (~$70MM/year) over existing models.
- Worked with internal and external government agencies (OCC) to answer model related questions.

Lead Data Scientist, Credit Risk   Apr 2017 – Dec 2018
- Partnered with cross-functional teams of data scientists, software engineers, and product managers to deploy the model.
- Leveraged a broad stack of technologies —Python, Conda, Airflow, AWS, Spark, and more to understand and analyze huge financial data and identify potential model features.
- Designed and created robust infrastructure to closely monitor model performance over time.

ComScore, Inc., Reston, VA
Manager, Data Science   Apr 2016 – Apr 2017
- Led a team that works directly with more than 150 clients to help them make online strategy using ComScore data.
- Actively involved in analyzing large data to fit client's requirement and improve our products.

Senior Data Scientist   Jul 2013 – April 2016
- Responsible for data cleaning, storing, modeling and visualizing using Python, SQL, Octave, d3.js.
- Actively involved in collecting client's requirements and working with them to create custom reports and forecasts

Infoedge Research, Senior Software Developer   Sep 2010 – Aug 2011
- Analyzed behavioral data and online activity of millions of users to improve the UI, backend and performance.
- Led a project to collaborate with Ad serving partner (Zedo), increasing the Ad based revenue by 47%.

Samsung Research Center, **,** Senior Software Developer   Jul 2008 – Sept 2010
- Worked on a project to create recommendation system for Smart TV users.
- Created applications to analyze voice data and create mapping of the video based on the content.

SIDE PROJECTS

NetApp, Student Consultant   Jul 2013 – April 2016
- Worked with NetApp team to determine technical and business value of using SDN technology.

Data Visualization Lab, Duke University Research Assistant   Aug 2011 – Dec 2011
- Assisted students and professors in using d3.js to create interactive visualization in their projects.

ENTREPRENEURSHIP

- Co-Founder, Questa Inc to import and sell products and sell it on Etsy
- Co-Founder, Suraja, an NGO that works for elimination of child labor in India.
- Co-Founder, ShelfRelief.com responsible for selling second hand books
- Director, Electronica club in NIT Jaipur and organized Electronic symposiums.