

EDUCATION

- **Indian Institute of Technology** Delhi, India
Master of Science in Mathematics; GPA: 6.72 *Jun. 2009 – May. 2011*
- **Govt. Autonomous College** Rourkela, India
Bachelor of Science in Mathematics(Honours); Percentage: 79.4% *Jun. 2006 – May. 2009*

EXPERIENCE

- **Optum Pvt. Ltd.** Noida, UP
Senior Manager Data Science *Sep 2016 - Present*
 - **Anomaly Detection:** Designed a predictive algorithm to detect fraud waste abuse and error patterns & identify suspected providers further stop their claims and for clinical audit
 - **Chat-Bot:** Developed a Chat-Bot using Keras Theanos and Natural language processing, this bot works as a claim query responder to the emails or chats coming from providers
 - **Inventory Prioritization:** Deployed an machine learning based optimization algorithm which looks into claims inventory and prioritizes them for clinical auditors basis probability of savings
 - **COB Prediction:** Machine learning algorithm which identifies members with more than one insurance, this model is ensemble of 20 algorithms which identifies such members
 - **Provider Network Articulation:** Network based unsupervised algorithm which extracts linking providers who are part of more than one fraud network
 - **Claim Auto-Denial Bot:** Natural Language based DeepLearning algorithm which reads medical records submitted by providers and denies fraud claims
- **Prophesee** Delhi, Delhi
Lead Data Scientist *Jan 2016 - Sep 2016*
 - **Boosted Ad Prediction:** Supervised algorithm which identifies the trends coming from facebook ads which distinguishes between paid post, viral post, non-paid posts
 - **Webhooks Model:** Predictive algorithm which predicts engagements and lifetime of any post or ads and amount spent on paid-ads, posted by your competitors
 - **AI Ad Manager:** Machine learning based predictive & prescriptive algorithm which identifies ads which will garner higher engagement provider recommendations for poor ads
 - **Social Influencer Score:** Unsupervised Network based algorithm which identifies influencers for each brand further distinguishes between macro/micro influencers
- **RSG Media LLC** Gurgaon, Haryana
Senior Statistician *Mar 2014 - Dec 2015*
 - **Promo Optimization & Scheduling:** Mathematical model which measured to gauge the success of promo campaign. This algorithm calculates the conversion & placement efficacy of each promos. Capable of dynamically scheduling within or cross channel promotion planning
 - **TV ratings:** TV Ratings prediction algorithm used simulation based data to make prediction on viewership and reach of each program further predicted popularity metrics as TV ratings
- **AbsolutData** Gurgaon, Haryana
Analyst *Jun 2013 - Mar 2014*
 - **Personalized Campaigns:** Recommendation engine which reads through historical booking patterns from propriety hospitality databases. Shared personalized campaigns via emailing vehicles containing an optimal number of campaign
 - **Last Minute Users:** Supervised algorithm which predicted members who are attracted to last minute offers
- **Genpact** Bangalore, Karnataka
Business Analyst *Sep 2011 - Jun 2013*
 - **A/B Testing:** Performed A/B testing analysis for changed in menu options of IVR system using propriety telecom data
 - **Affinity Score:** Scoring Algorithm which identifies member affinity towards various contacts channel i.e IVR, Web-Chat or Talk to agent

PERSONAL ATTRIBUTES & ACHIEVEMENTS

- **Active Listener:** Understanding service objectives and capturing business requirements through active listening & questioning techniques
- **Business Acumen:** Able to identify business & Systems process improvements from Big Picture to detail level
- **Leadership:** Served as a Senate member at IIT Delhi & College Vice President at Govt. College

PROGRAMMING SKILLS

- **Languages:** Scala, Python, Javascript, C++, SQL, SAS **Technologies:** AWS, ElasticSearch, MongoDB