Swapan Sharan

http://www.swapansharan.com

Email : swap.math@gmail.com
Mobile : +91-9899-280-708

EDUCATION

Indian Institute of Technology — Delhi, India
Master of Science in Mathematics — *Jun. 2009 – May. 2011*

Govt. Autonomous College — Rourkela, India
Bachelor of Science in Mathematics(Honours) — *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 form 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 distinguises 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 competitiors
- **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 distingues 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 whithin 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**: Reccomendation engine which reads through historical booking patterns from properiotry hospitality databases. Shared presonalized 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 properitory telecome 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