Vidhi Chugh

Social network: Linkedin Medium   email id: vidhi_chugh@yahoo.in

She is a **gold medalist** and an **inventor of 12+ US patents**, currently working as a **Staff Data Scientist with Walmart**. She works cross-functionally with the business, data science, and product team to research and generate business value by leveraging AI. Besides, she is also responsible for **mentoring** the team and fostering the **data science community.**

She is a global speaker and also runs a successful blog where she breaks down various AI/ML concepts. She is an advocate for "**Responsible AI**" and a **researcher** for CAIDP Spring 2022 AI Policy Clinic.

Experience: (10 years 6 months)

Walmart Global Tech
Staff Data Scientist   **Aug'21 to present**
- **Market Intelligence Analytics:** AI-enabled solutions to improve **competitive pricing**. Leveraged index store to improve the search relevancy by adopting parameters calibration, similarity scores, and attributes boosting techniques. Relevancy improved by 45%.
- **Best practices framework:** A workflow for analyzing a new competitor including attributes analysis, sample space, mandatory features to build a generalized matching algorithm to find similar products.

Blue Yonder
Staff Data Scientist 1   **Aug'18 to Aug'21**
- **Order Lateness Assistant:** Built an **RCA assistant** (Root Cause Analysis) that learns the statistical dependencies using boosted trees and enables the planner to act upon the causals behind the order lateness.
- **Probabilistic Graphical Models:** Designed a **query engine** for inference generation and anomaly detection using a Bayesian graphical network using 'pgmpy'.
  - Received the **"Outstanding Innovation of the year"** award.
- **Deep Q learning:** Designed **DQN and DQFD RL agent** that traverses through the linear supply chain and outputs the optimum quantity that can be delivered against a certain demand, based on various measures e.g. capacity constraint, raw material availability, yield, and production rate
- **Parameter Estimation**: Designed an ML-based solution to output the best parameters in the supply chain which drive up the KPI to the maximum. Used **Gaussian Bayesian Sampling and Metropolis-Hastings** to sample the parameters' value and reduced the parameter search time by 37%

Yatra.com
Senior Data Scientist   **Sep'17 to Aug'18**
- **LSTM model:** Developed a **2-layer multi-variate LSTM** model to forecast the campaign performance for top traffic campaigns, using the historical performance at previous time steps.
- **Reinforcement Learning:** Designed a **DQN agent** across multiple dimensions to perform dynamic bidding that yields maximum reward for the highest transaction value per conversion. Domestic flights conversions rose 4%

PWC
Sr. Risk Analyst   **Aug'15 to Feb'16**
- **Bankruptcy Prediction**: Prepared a model using **SVM** to predict the probability of survival of the distressed company and improved the ETA by 2 days

Evalueserve
Business Analyst   **Jan'14 to May'15**
- **Credit Risk Modeling:** Built a credit model to classify the companies into high-risk and risk-free categories, based upon quarterly performance numbers using the SVM algorithm.

Ericsson
Engineer   **Aug'11 to Jan'14**
- **Network Optimization:** To optimize the wireless US networks

Education

Degree	Year	Institute	Major and Specialization	CGPA / %
B. Tech (Gold Medalist)	2011	ITM, Gurgaon	Electronics & Communication	80 %
XII	2007	CBSE	PCM	86 %
X	2005	CBSE		85 %