AMIT KUMAR

Experienced Data Scientist | AI ML Developer

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📍 Bangkok, Thailand

EDUCATION

MSc and BSc in Mathematics and Computing

Indian Institute of Technology

📅 01/2006 - 01/2011   📍 Kharagpur, India

EXPERIENCE

Lead Data Scientist

Maqe

📅 08/2022   📍 Bangkok, Thailand

- Developed an LLM based Text-to-SQL generative model and implemented a chatbot to interact with a database and provide game statistics to users for a sport website
- Developed an Image Recognition API to detect products for a client app with 98% accuracy
- Worked on a long-term engagement with a Europe based financial client company to help with developing and maintaining machine learning models and automating internal business processes to enable faster decision making
- Developed several POC applications end to end from collecting data, developing models and interactive interfaces for demo

Senior Analyst

Agoda

📅 07/2020 - 04/2022   📍 Bangkok, Thailand

- Proactively delivered insights and recommendations on productivity, organizational changes, recruitment and talent
- Automated organizational manual processes extensively with Python and real-time data flows
- Developed dashboards on key organizational metrics to facilitate decision making for senior leadership
- Coordinated and managed projects with stakeholders and leaders across multiple teams in the organization

AI/ML Developer

Contract Consulting

📅 01/2018 - 04/2019   📍 Gurgaon, India

- Developed an automated forecasting API service for time-series data using Django and Celery frameworks in Python
- Won a project bid with a manufacturing giant by predicting their annual sales of products with 90% accuracy
- Led the development of dashboards with KPIs on credit risk underwriting and collections for app-based lending platform
- Innovated new approaches to detect fraud using Network Analysis and Graph Theory bringing down fraud rate by 25%
- Implemented a real-time visualization tool using Python iGraph for operations team to protect against fraudulent leads
- Built decision trees to underwrite users without a credit history that added 3% of new loans and 1% increase in revenue

SUMMARY

Data Scientist/Engineer with over 12 years of experience in credit risk, healthcare and retail industries with organizations and teams from several geographies and diverse backgrounds. Adaptive personality, being a mix of team player, mentor or leader as a project demands. Mathematics major with a knack for problem solving. Expertise in Machine Learning with sound theoretical understanding of algorithms and application of Statistical methods to business problems. Consistently brought value to products, clients and teams with a high ROI on projects of diverse nature. Currently looking for an opportunity for a long-term role.

Values: Integrity, inclusiveness, professionalism, mutual respect, collaboration, learning and growth

SKILLS / TOOLS

Python   R   SAS   SQL   NoSQL

Tableau   AWS   GCP   Cloudera

Machine Learning   Statistics

AB Testing   Dashboard   LLMs

FastAI   OpenAI API   GPT   BART

langchain   llamaindex   huggingface

Tensorflow   PyTorch   Pandas

scikit-learn   NumPy   SciPy

matplotlib   Seaborn   iGraph

Streamlit   Apache   Docker   Spark

Hadoop   Hive   Kubernetes

Django   Celery   Redis   Airflow

Github   CI/CD   Agile   React

Javascript

EXPERIENCE

Senior Analyst

McKinsey & Company

📅 04/2016 - 05/2017   📍 Gurgaon, India

- Devised a methodology to create savings through timely procurement of pharmacy and other medical supplies for a top hospital chain in the US that resulted in 3% savings on a spend base of $10M over six months
- Built regression and time series models to predict prices of pharmacy supplies, with 80% accuracy in 5% error range
- Engaged with multiple major healthcare providers through analytics and machine learning on ad-hoc business problems
- Delivered scalable tools with R and Tableau to provide reporting solutions with plug-and-play type functionality on raw data

Healthcare Data Analyst

SCIO Health Analytics

📅 10/2013 - 03/2015   📍 Hartford, USA and Chennai, India

- Developed regression models in SAS to identify 'impactable' medical conditions and quantify associated risk for a top health insurer in the US; 2% lift in accuracy over the client's existing models
- Innovated a joint probability based technique for transforming sparse medical claims data into significant predictors
- Built predictive models on utilization and pharmacy claims data for clinical and financial risk prediction, condition identification (to predict major surgeries) and fraud detection (payment integrity) for multiple clients

Analyst

Global Analytics

📅 06/2011 - 03/2013   📍 Chennai, India

- Proposed new revenue segments to be opened up for a lending platform using predictive models built on R and Python
- Designed A/B tests and analyzed risk KPIs to manage portfolio of loans as part of risk monitoring team
- Conceptualized the underwriting structure for a newly launched consumer finance product

Research Assistant

Aalto University

📅 05/2010 - 07/2010   📍 Helsinki, Finland

- Second Internship - Worked as a student intern to assist the Head of Department, Mathematics and his research group on topics in numerical analysis for a second time

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