Ph: +91 – 9902785537, 9470703519 Email: Sidharth05kumar@gmail.com

Data Science Professional with 4+ years of experience. Currently working in B2B segment with focus on alternative data. Also has experience in US healthcare domain. Proven academic records and demonstrated analytical capabilities on competitive platform.

2008-09	2010-11	2011-15	2016	2016-18	2017-19	2019-Present
Class X	Class XI-XII	B.Tech -	Accenture,	PGDBA -	UnitedHealth Group,	GlobalData Plc,
CBSE	CBSE	NIT Patna	Software	IIM Calcutta, IIT Kharagpur,	Internship & Full	Senior Data
Score: 90.5 %	Score: 91 %	Grade: 8.80	Associate	ISI Kolkata	time Data Scientist	Scientist
			(5 months)	Grade: 8.74	(6+14 months)	(25+ months)

Key Projects GlobalData Plc July 2019 - Present

- Patents Company Name Normalisation: Created an algorithm to map patent assignee name variants with an existing company naming system. Utilised various patent & company features and several textual metrics for developing the matching algorithm. Algorithm was able to cover 95% of all the patent applicants and serves as database for other sources.
- **Disruptor Innovation Identification**: Created a language model to classify an article into innovation or not. An accuracy of 93% was achieved by fine tuning BERT embedding for classification task. Also built a second stage model to summarise the article.
- **Influencer Recognition**: Created a model to identify human accounts using the profile images from twitter. Model was built using Convolutional Neural Network (CNN) with an accuracy of 95% and serves as a filter for influencer identification.
- Consumer Review Insights: Created an automated cluster and topic generation for driving insights from drug reviews. Used
  transformers as an input to density based hierarchical clustering and zero-shot similarity metric for topic selection.
- PR Reports and Automations: Created a report on Vegan based on social data using predefined business text and keyword searches. Created an interactive dashboard on beers to show case capabilities of utilising blogs data. POC on automation of several legacy one pager reports using python to save manual time and efforts.
- Analytical Dashboards: Developed Verdict Media websites traffic monitoring for sales team using Google BigQuery and Data Studio. Created a dashboard using social indicators to analyse the effect of Covid-19 on companies and sectors. Built a Competitive Intelligence Dashboard for company performance benchmarking using Plotly dash framework. Created a UI for Analytics Hub dashboard for analysis & metric generation from alternative data.

Key Projects UnitedHealth Group Oct 2017 - June 2019

- Retention Driver Analysis: Worked on finding key drivers influencing member retention during annual enrolment period.
   Built logistic, random forest and gradient boosting model for identifying key driving factors. Used the concept of shapley value and partial dependent plots for quantifying the impact of key drivers on retention.
- CAHPS Project: Worked for enhancing NPS & Medicare Plan Star ratings by utilising the member survey data. Analysed
  contract & plans star rating and likelihood to reach 4-star rating using logistic classifier. Predicted members who are likely to
  provide low scores in survey using random forest model.
- Internship (6 months) Worked for Provider side of the business to improve experience and reduce cost by digitisation using big data platforms for data analysis. Created a complete automation of ETL process. Received Bravos awards twice and was graded excellent in internship evaluation. Also received pre-placement offer to serve as full time data scientist.
- OPTUM Data Science Challenge 1st Runner up world-wide (1st in India) for wining data science challenge among
  employees. Built a PCP recommendation model that can reduce cost by choosing right PCP for members. Final model was built
  using lots of feature engineering and parameter tuning. Achieved an AUC of 86.66 on private leader board.

Academics Projects	2016 - 2018	Kaggle Projects and Achievements	2017 - 2020			
• Retrieval based chatbot us		Highest Rank achieved 510 among 100k (top 1%) data scientist on the platform				
LSTM (RNN) model with		Problem	Rank (Tier)			
publicly available Ubuntu 🛭		Sberbank Russian Housing Market Price Prediction	56/3274 (Silver)			
• Stock Market Movement	h an accuracy of 60%	Data Science Bowl - Lung Cancer Prediction	190/1972 (Bronze)			
social discussions with an		Instant Gratification - Kaggle Internal competition	88 / 1832 (Silver)			
without any financial featur		NOAA Fisheries - Sea Lions Count	86/385 (Bronze)			
• Research on Robust Reg		Zillow Housing - Zestimate Prediction	240 / 3775 (Bronze)			
dataset. Implemented Camp simulated using Monte Carl		IEEE Fraud Detection in Transactions	328 / 6381 (Bronze)			
Co-curricular and Extra-Curricular Activities						

## Co-curricular and Extra-Curricular Activities

- Secured 1st runner-up position in StockMart, a live stockmarket event, conducted under Anwesha, IIT Patna in 2013
- Secured 2<sup>nd</sup> runner-up position in Artysticks, an architecture event, conducted under Anwesha in IIT Patna in 2013
- Participated in several robotics event & workshops at IIT Guwahati (2012), ISM Dhanbad (2011) & NIT Patna in 2012
- Ranked in top 2% among 5 lakhs candidates in IIT-JEE in 2012 and top 2% among 11 lakhs candidates in AIEEE 2011
- Rewarded a certificate of merit for excellent performance in All India Talent Search Examination (AITSE) held in 2003

Programming	Tools	Data Science & ML/DL Frameworks	Certifications
<ul> <li>Python</li> </ul>	<ul> <li>Hadoop - Hive</li> </ul>	Scikit-learn, Scipy, Numpy, Pandas,	<ul> <li>IBM Data Science Professional</li> </ul>
• R	<ul> <li>Google-Big Query</li> </ul>	Plotly, Dash, NLTK, H2O,	<ul> <li>Executive Data Science – JHU</li> </ul>
• SQL	<ul> <li>Google Data Studio</li> </ul>	Keras, SpaCy, Tranformers	<ul> <li>Machine Learning – UL</li> </ul>