

# Adarsh Kumar

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## EDUCATION

<b>Texas A&amp;M University</b> <i>MS in Data Science</i>	College Station, TX Aug 2024 - Current
<b>KIIT Deemed to be University</b> <i>B. Tech. in Computer Science and Engineering (GPA: 3.7)</i>	Bhubaneswar, India Jun 2018 - May 2022

## WORK EXPERIENCE

<b>Optum, UnitedHealth Group</b> <i>Software Engineer (Data Science)</i>	Gurgaon, India May 2023 – July 2024
<ul style="list-style-type: none"><li>Developed and implemented a machine learning algorithm to predict member enrollment in MassHealth programs, achieving 80% accuracy and increasing program efficiency by 15%</li><li>Collaborated with cross-functional teams to integrate NLP technology into the existing systems, reducing manual effort by 95% and improving overall system efficiency by 30%</li><li>Redesigned the existing CAP Portal(internal portal), and Provider Portal and designed a new Doulas Portal for MassHealth focusing on user-centric design principles, resulting in a substantial increase in user involvement by 45%</li><li>Tech Stack Used: <i>Microsoft SQL Server, Python, Excel, Tableau, Machine Learning, NLP, UI/UX</i></li></ul>	
<b>TDP Software Engineer</b>	Jun 2022 – Apr 2023
<ul style="list-style-type: none"><li>Utilized Microsoft SSIS and Microsoft SQL Server to design scalable architecture for ETL processes, handling over 1TB of data daily with near-real-time processing capabilities.</li><li>Implemented complex job flows to read and write from flat files and databases, resulting in a 20% increase in data accuracy, saving \$8,000 annually through automation.</li><li>Tech Stack Used: <i>Microsoft SSIS, Microsoft SQL Server, Microsoft SSRS</i></li></ul>	
<b>HighRadius Technologies</b> <i>Machine Learning Engineer Intern</i> <a href="#">[Certificate]</a>	Bhubaneswar, India June 2021 - May 2022
<ul style="list-style-type: none"><li>Enhanced the scalability and accuracy of forecasting models by 10% through advanced Python programming, enabling more accurate long-term predictions for business planning</li><li>Customized and optimized machine learning algorithms to reduce tuning time by 11% at the day level and 62% at the week level, resulting in more efficient data analysis processes</li><li>Built an ML Full Stack Web Application using ReactJS, resulting in a 20% reduction in manual data entry time.</li><li>Tech Stack Used: <i>Python, SkLearn, Matplotlib, Seaborn, SciPy, Statistical Modelling, MySQL</i></li></ul>	

## PERSONAL PROJECTS

<b>MediBot - Optum</b> (currently in the POC state) Tech Stack Used: <i>LLM, HuggingFace, OpenAI (GPT-3.5), Streamlit</i>
<ul style="list-style-type: none"><li>Designing and implementing an innovative chatbot system using Language Model (LLM) technology to replace the conventional FAQs system in the MassHealth provider portal</li><li>Developing a unique feature enables the chatbot to analyze paid claims for <a href="#">MassHealth</a></li></ul>
<b>Invoice Management Application</b> <a href="#">[GitHub]</a> <a href="#">[Presentation]</a> Tech Stack Used: <i>Python, Java 8, JDBC, Servlets, JavaScript, React.JS, MySQL</i>
<ul style="list-style-type: none"><li>Developed a full-stack web application that accurately predicts invoice clearance dates with a margin of error of only 5%</li><li>The web application is exposed to different user roles such as analyst, and manager</li></ul>
<b>SpaceX Falcon9 First Stage Landing Prediction</b> <a href="#">[GitHub]</a> <a href="#">[Presentation]</a> Tech Stack Used: <i>Python, Beautiful Soup, SkLearn, Dash, Plotly, MySQL, Presentation</i>
<ul style="list-style-type: none"><li>Utilized advanced machine learning algorithms to develop a SpaceX Falcon9 landing prediction model with an accuracy rate of 95% that will successfully land to save ~ \$100 million</li><li>Scrapped data from SpaceX API, and SpaceX Wikipedia page, and created a dashboard for visualization</li></ul>

## SKILLS

- Languages: Java 8, Python 3, MySQL,
- Developer Tools: Jupyter Notebook, Jenkins, Git, Postman, Jira, Google Colab, Power BI, Excel.
- Technologies / Libraries: SkLearn, Matplotlib, Plotly, Beautiful Soup, Tensorflow, NLTK, HuggingFace, LangChain, SSIS/SSRS, Generative AI
- Coursework: Data Structures, ML, Database Management Systems, AI, Cloud Computing, Data Analysis, Statistics.

## CERTIFICATIONS

- IBM Data Science Specialization ([Certificate](#))
- deeplearning.AI - Neural Networks and Deep Learning Certification ([Certificate](#))
- Google Cloud Platform - Machine Learning & AI Skills ([Profile](#))