PRADIPKUMAR RAJASEKARAN

spacepradip@gmail.com | +1 (469)465-4655 | https://github.com/CurSpace | https://www.linkedin.com/in/pradipkumarr/

EDUCATION

Master of Science in Computer Science,   **Aug 2021 – May 2023**
University of Oklahoma, Norman, Oklahoma.

Bachelor of Engineering in Computer Science and Engineering   **Aug 2017 – June 2021**
Sri Ramakrishna Engineering College – Anna University, Tamil Nadu, India.

SKILLS

Programming Languages: HTML/HTML5, CSS, JavaScript, python, Java, PHP, SQL, NoSQL, PL/SQL, T-SQL.
Databases: PostgreSQL, MySQL, Oracle Database, MongoDB, MS SQL Server.
Tools: Git, ETL, Data Warehouse, SSRS, SSIS, SSAS, MS Excel, Power BI.

PROFESSIONAL EXPERIENCE

Data Scientist, Autismpi Org, USA   **Sept 2022 – Present**
- Installed PostgreSQL and integrated with front end-forms.
- Developed database tables, structures, schemas, and dictionaries to persist data into a PostgreSQL database.
- Implemented PL/pgSQL functions and triggers to enhance database functionality.
- Extracted and analyzed data from publications and developed a predictive model to assess the likelihood of autism.
- Helped develop and maintain dynamic websites using HTML/HTML5, CSS, JavaScript, PHP and React.js.

Database Developer, Cloudran Communications Pvt. Ltd, India   **Dec 2020 – Jul 2021**
- Enhanced the Unix shell script based ETL pipeline sourcing daily updates to data warehouse from source systems.
- Implemented performance tuning for ETL SQL queries resulting in a 20% decrease in data load time.
- Worked in an Agile team developing a new Customer service application using React.js, JavaScript, MySQL and Django.
- Built robust REST APIs that gives a view of the billing system to the sales team.

Data Science Intern, Aboorva Systems, India   **Jun 2020 – Dec 2020**
- Worked on a home grown inventory management system using React, Java (Spring Boot), and Oracle Database.
- Developed database views to simplify complex joins and to enhance security.
- Wrote stored procedures, functions and triggers using PL/SQL, and also developed automations using python scripts.
- Performed data analysis in Python using NumPy and pandas, and created visualizations using Matplotlib and Seaborn.
- Implemented demand forecasting using Machine Learning Algorithms XGBoost, reducing over ordering by 10%.

PROJECTS

Health Data Analytics   **Feb 2023 – May 2023**
- Developed a comprehensive personal Health Data Analytics Platform using HTML, CSS, JavaScript, PHP and React.
- Designed a SQL Server RDBMS to manage health care data with roles and security.
- Implemented T-SQL queries to manipulate and analyze data.
- Utilized Power BI to identify and report Length of Stay with an estimated 96% accuracy.

Bitcoin Price Prediction   **Mar 2022 – May 2022**
- Built a Bitcoin Prediction app using React, Bootstrap, Node and MySQL.
- Predicted bitcoin prices using 5,741,115 historical records and analyzed the impact of Elon Musk's tweets on the price.
- Developed machine learning models including ARIMA, XGBoost, VAR for Bitcoin price prediction, lowering RMSE.

Customer Segmentation Dashboard   **Nov 2021 – Dec 2021**
- Developed a customer segmentation dashboard using JavaScript, Django, Python and SQL Server.
- Processed and analyzed 1 million customer records using pySpark, enabling efficient data transformations.
- Created interactive dashboards using Power BI incorporating findings from EDA for targeted marketing.

RESEARCH PUBLICATIONS
- Flight Delay Prediction Using Random Forest Classifier - Springer
- Temporal Localization of Topics Within Videos - Springer
- Server Log Prediction using Apache Spark - IRJET