

# KAVYALATA KOTHARI

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## EDUCATION

<b>California State University - Northridge</b> Master of Science in Computer Science (3.9 GPA)	Jan 2022-May 2024(Expected) California, USA
<b>Rajasthan Technical University</b> Bachelors in Computer Science with Honors	Aug 2014 - June 2018 Jodhpur, India

## PROFESSIONAL EXPERIENCE

<b>Graduate Student Mentor &amp; Research Contributor, California State University – Northridge</b> <ul style="list-style-type: none"><li>Mentored and collaborated with students in a National Science Foundation (NSF) funded REU program focused on 'Energy Prediction for Automobile Air Conditioning Systems' using Machine Learning.</li><li>Collected and analyzed real-time data from a fleet of Toyota Prius V 2014 vehicles using OBD2 data logger devices, contributing to the development of accurate energy prediction models.</li><li>Utilized data pre-processing techniques, including cleaning, feature engineering, and scaling, to optimize the accuracy of energy models and enhance their performance in real-world scenarios.</li><li>Applied advanced machine learning techniques, such as regression, decision trees, and neural networks with remarkable 96% accuracy in predicting energy consumption through the models.</li></ul>	June 2023-July 2023
<b>Web-Producer, Graduate Student Assistant, California State University – Northridge</b> <ul style="list-style-type: none"><li>Developed over 300 web pages for the University website, leveraging HTML, CSS, JavaScript, and Drupal 9 to ensure a visually appealing and user-friendly experience.</li><li>Collaborated with cross-functional teams to optimize web page load times by implementing caching techniques and reducing file sizes, resulting in a remarkable 30% enhancement in website performance.</li><li>Contributed to the development and deployment of new website features, driving a significant 20% increase in user engagement metrics, and enhancing the overall user experience.</li></ul>	Aug 2022-May 2023
<b>Sr. Software Engineer, TIAA CREF, Mumbai, India</b> <ul style="list-style-type: none"><li>Developed ETL jobs using SSIS and DataStage to extract, transform, and load data into data warehouses, streamlining the integration process and reducing manual effort by 75%.</li><li>Created pl/SQL programs and SQL queries to efficiently perform operations on Postgres and Oracle Finance Data Mart.</li><li>Utilized MySQL for transactional data storage and MongoDB for flexible document-based data storage.</li><li>Implemented shell scripts for data munging, Git for version control, and job automation using AutoSys &amp; Jenkins, resulting in a significant 40% reduction in job execution time and increased operational efficiency.</li><li>Engaged in all phases of the SDLC, including requirements gathering, design, development, testing, and deployment, ensuring comprehensive involvement in project success.</li></ul>	Dec 2020-Dec 2021
<b>Software Engineer/ Sr. Consultant, Capgemini Technology Services, Bengaluru, India</b> Client- Groupe PSA (Automobile Industry), Paris, France <ul style="list-style-type: none"><li>Developed highly efficient and scalable ETL pipelines, utilizing an array of stages such as Transformer, Joins, and Hierarchical stage which significantly enhanced data processing efficiency and facilitated seamless integration.</li><li>Orchestrated the integration of diverse data sources, encompassing CSV files and tables from heterogeneous databases, including Oracle, Postgres, and MySQL. Employed advanced SQL procedures and dynamic bash scripts to perform data preprocessing, harmonizing data formats, and optimizing data structures for unified data pipelines.</li><li>Demonstrated exceptional project management skills during a critical customs transformation initiative for automobile parts import/export amidst the demanding Brexit period.</li><li>Big Data pipeline using Amazon Redshift to extract business insights from the stored data.</li><li>Utilized CloudWatch for real-time monitoring and alerting of application performance in the AWS cloud environment.</li></ul>	June 2018-Dec 2020

## ACADEMIC PROJECTS, LICENSES, AND CERTIFICATIONS

- AWS Certified Cloud Practitioner by Amazon Web Services
- Agile Software Development by the University of Minnesota
- Cloud Lakehouse Data Management by Informatica
- Growponics: E-commerce web application to create awareness of Hydroponics and buy products to build a scalable system at home. Built the application using HTML, CSS, JavaScript, React, Node.js JS frameworks. The Firebase database was used to store the data and user credentials for User authentication. The payment gateway is provided using Stripe Rest API. Admin CRUD operations were implemented.
- Banking Management System: Developed a system that aims to manage all the accounts, credits, and debits using C++.

## SKILLS

**Programming:** Python, C/C++, Java, JavaScript, SQL, NoSQL, MongoDB, PostgreSQL, Oracle, Redis  
**Cloud systems:** AWS, S3, EC2, EKS, Lambda, Code Pipeline, CloudWatch, Route53, RDS, Azure, RedShift  
**Web Development:** HTML, CSS, Bootstrap, jQuery, React, JSON, REST, Microservices, Postman, XML, JSON  
**Development and Operations:** Jenkins, Selenium, Scrum, GIT, Jira, Trello, Docker, Kubernetes  
**Data Engineering:** ETL Tools, Tableau, TensorFlow, Keras, Pytorch, Jupyter Notebook, TensorFlow