LAKSHMI PREETHI KAMAK

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MY PROFILE

Experienced data scientist with a strong background in data mining, predictive modeling, statistical analytics, and data warehousing. Proven track record in implementing data-driven solutions to meet business objectives, combining technical expertise with project management skills. A quality-driven team player with excellent problem-solving abilities and the ability to apply research insights to real-world challenges.

SKILLS

Project Management - Agile methodologies (JIRA), Budget and Resource Management, Stakeholder Engagement.

Research: Quantitative and Qualitative Research Methods, Survey Design and Data Collection, Literature Review

Pedagogy: Development of Learning Materials, Curriculum Design, Workshops, Learning Management Systems (D2L)

Scientific Writing: Research Papers, Grant Proposals (Overleaf).

Data analytics: Python libraries (NumPy, Pandas, Scikit-learn, Keras, Flask), PSPP, Excel

Machine Learning: Clustering, Regression, Predictive modeling, Diffusion and NLP models

ETL & Business intelligence reports: Tableau, Pentaho

Data Visualization: Tableau, Power BI

Database Modelling: Oracle, MySQL, Postgres, MongoDB

Cloud Computing: AWS, Azure and Microsoft Fabric.

API Development & Programming: Python, Java, SQL, Angular, HTML

CI/CD & Version Control: Jenkins, Git

IDE: Visual Studio Code, Eclipse, Jupyter, Spyder, Google Colab

EDUCATION

MASTERS in Computer Science / 2020 - 2023   **Lakehead University, Canada**

- Graduated with distinction, achieving a cumulative GPA of 9.7, while serving as both a Teaching and Research Assistant.
- Awarded a scholarship funded by the NSERC PromoScience project under the supervision of Dr. Vijay Mago at DaTALab, Lakehead University. Completed a thesis on Programming Pedagogy in the Age of Accessible Technology, focusing on innovative teaching methods.
- Conducted research on designing culturally contextualized curriculum content to teach coding to Grade 7 and 8 Indigenous students in Northwestern Ontario. The project utilized computational thinking methods and human-computer interaction (HCI) principles. The findings were published and presented at the prestigious HCI International Conference in Denmark.

- Conducted research on the efficacy of OpenAI's ChatGPT as an AI coding assistant in enhancing graduate students' self-directed learning experiences while solving complex reinforcement learning tasks. Evaluated technology acceptance using a custom survey instrument combining HCI and HAI metrics.
- Successfully developed grants and planned budgets for NSERC PromoScience supplements, including Science Odyssey and Science Literacy Week, securing funding and overseeing their successful execution.
- Completed advanced courses in Ethical Issues in Computer Science, Graduate Seminars, and Research Methodology.
- Built machine learning pipelines for classification tasks using NLP and text embedding techniques, achieving high accuracy levels.
- Built recommendation models and conducted cloud experiments on AWS platforms like SageMaker and EMR, improving service recommendations.
- Teaching Assistant for Big Data, AI, Cloud Computing Lab Tutorials and Cryptography.

SUMMER SCHOOL / JUL 2022 - AUG 2022 **Deggendorf Institute of Technology, Germany**
- "AI for Industry" Programme with Scholarship funded by DADD (German Academic Exchange Service), Earned 2 ECTS credits.
- Activities and societies: Data Science, Data Analysis, and AI Programming with Python
- Innovation Management for AI
- Industrial Application of Machine Learning
- AI Hackathon - Development of Concept AI mirror using opencv and diffusion models

BACHELORS in Computer Science / 2009 - 2013 **Anna University, India**
- Graduated with 8.2 CGPA in Bachelors of Engineering in Computer Science.
- Awarded the 'Best Outstanding Student' of the CSE department.
- Opted for Artificial Intelligence, Data Warehousing and Data Mining as my electives.
- Co-Chair Person of the Women in Engineering (WIE) affinity group in IEEE.

Grade 12 / 2008 - 2009 · **Jeevana School, India**
- Graduated with 92.13 percentage and completed C++ course in NIIT academy.

Grade 10 / 2006 - 2007 **St.John's School, India**
- Graduated with 84.11 percentage and was the topper in the Computer Science class with 100%

CERTIFICATIONS..

- *PMI® - Project management Institute - Gen AI for Project Managers*
- *PMI® PDU - Scrum: Advanced*
- Microsoft Azure Data Scientist Associate
- Microsoft Fabric Associate
- Transformational Leadership Programme, Indian School of Business (ISB), Mohali.

WORK EXPERIENCE ....

IT DEVELOPER/ ANALYST/ OCT 2023 to PRESENT   **Canada Revenue Agency, Canada**

- Served as Project Leader, managing multiple digital transformation projects under ITB and facilitating costing calls with on-boarders, sectional dashboards, impact assessments.
- Served as Scrum Master, facilitating sprints, retrospectives and reducing scope creep for timely deliveries.
- Led Database modeling with HLBR consumption, ER diagrams, developed data governance frameworks.
- Maintained dashboards to provide actionable insights and data visualizations for C-suite presentations.
- Developed statistical models for option analysis, improving data quality for strategic decisions.
- Developed a multilingual Angular application with web accessibility for digital tax forms, translating wireframes into functional UI, and implemented RESTful APIs with MongoDB using Java.
- Designed and deployed cloud-integrated reporting solutions using Azure Blob Storage.
- Created JIRA workflow courseware and mentored the team through demos.

Achievements:

- Spearheaded cloud release plan, serving as the pathfinder for auto-deployment during early maintenance hours, reducing rollout time by 30%, earning managerial appreciation.

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DATA ENGINEERING ASSOCIATE / 2018 - 2021   **Cognizant Technology Solutions, India**

- Led a team of five to manage industrial *telecommunication* data pipelines for operations and supply chain, transforming business requirements into analytics solutions using ETL tools.
- Performed data profiling and wrangling with NumPy and Pandas to analyze customer and invoicing data from legacy telecom systems and to integrate with data warehouses.
- Constructed cohort business analysis reports and statistical forecasting using Python.

Achievements:

- Automated job runs, saving 6000 hours, reducing customer wait time on each delivery.

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SENIOR DEVELOPER / 2013 - 2018   **Solartis Technology Services, India**

- Developed Business Intelligence (BI) reporting layer and roadmaps for insurance policy administration, delivering proofs of concept to support business goals.
- Led Database modeling for *insurance* data warehouse including HLBR consumption and ER diagrams.
- Integrated RESTful web services and HTML using Java APIs and hibernate framework.

Achievements:

- Transformed risk management data into Pentaho Dashboard, enabling customers to proactively predict claims trends and identify loss.
- Conducted geostatistical analysis to assess coastal hazards and flood risks to insured assets and improve revenue forecasts, reducing auditing costs by 21%.

LANGUAGES ....

- English - IELTS General - Band 8
- French - Beginner