



Keerthika Pujari

BS in Data Science and Applications
Indian Institute of Technology, Madras, India

✉ keertikapujari25@gmail.com

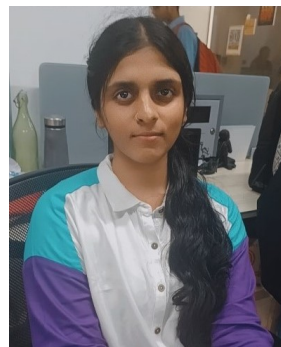
☎ +91-9959365935

🌐 Website

🌐 linkedin.com/in/keerthika-pujari

🐙 github.com/keerthika-pujari

🔗 leetcode.com/keethu22



EDUCATION

Degree	Institute/Board	CGPA/Percentage
B.Tech	SRM Institute of Science and Technology, Ramapuram	9.97(Current)
BS	Indian Institute of Technology, Madras	Ongoing

EXPERIENCE

Research Intern @ IITM | ML in IBN

Guide: Dr. Krishna Moorthy Sivalingam

Ongoing
Chennai

- Researching Machine Learning and Intent-Based Networking (IBN).
- Completed data scraping and preprocessing of Kubernetes documentation.
- Fine-tuned lightweight language models (LLMs) using Hugging Face transformers library.
- Analyzed and summarized numerous survey papers on network performance and intent-based networking and assisted in the publication of a paper.

Research Intern @ IITM | ML in Computational Chemistry

Guide: Dr.Chaitanya Sharma Yamijala

Ongoing
Chennai

- Reviewed survey papers on the use of machine learning models in environmental chemistry.
- Currently reviewing related articles to identify valuable research concepts.
- Investigated the classification of PFAS sources from PFAS fingerprints in fish tissue.
- Conducted data analysis and preprocessing to replicate an existing repository with modifications.
- Applied machine learning techniques to identify the source of PFAS contamination.

Bachelor Of Sciences | Data Science and Applications

University: Indian Institute of Technology Madras

Ongoing
Chennai

- Completed the Foundational level courses. Relevant Courses include Statistics, Linear Algebra, Computational thinking, Python Programming
- Currently pursuing the Diploma in Data Sciences. Relevant courses include Machine Learning Foundations, Tools in Data Science, Machine Learning practices, Buisness analytics, Buisness Data management, Database management systems, Data Structures and Algorithms, Modern Application development.

TECHNICAL PROFICIENCY

• Programming Languages

Python, C, C++, Java, HTML, SQL, Latex

• Technologies: React.js, Django, TensorFlow, PyTorch, Bootstrap, Flask,Node.js, Android SDK, Excel, Tableau

- **Concepts:** Calculus, Probability and Statistics, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Intent Based Networking, Natural Language processing, Data Structures and Algorithms, Big Data Tools and techniques, Object oriented programming

CERTIFICATIONS

Certificate	Organisation	Year
Foundational level - BS in Data Science	IIT Madras	May 2024
Python for Data Science	NPTEL	September 2023
Database Management Systems	NPTEL	March 2024
Google Data Analytics Professional Certification	Google	January 2024
E-cell(Entrepreneurship)	IIT Madras	March 2024
Summer Analytics 2024	IIT Guwahati	May 2024

PROJECTS

Automated Text Generation of Kubernetes Data Using LLM Models | *Transformers, Kubernetes, GPT Models*

Guide: Dr. Krishna Moorthy Sivalingam, IIT Madras

- Scraped extensive data from Kubernetes documentation, creating a high-quality dataset for training purposes.
- Performed domain-specific preprocessing on the Kubernetes data to ensure relevancy and accuracy for model training.
- Fine-tuned lightweight GPT models using the preprocessed Kubernetes dataset, achieving efficient and relevant text generation.
- Evaluated and optimized the models for performance, ensuring they meet the desired standards for accuracy and efficiency.

ML in PFAS source Identification, Classification | *Google colab, Python*

Guide: Dr. Chaitanya Sharma Yamijala, IIT Madras

- Reviewed survey papers on the application of Machine Learning in PFAS source classification and identification.
- Replicated and analyzed ideas from existing research papers to understand PFAS fingerprinting in fish.
- Conducted deep analysis to draw insights from the replicated study..
- Currently developing and refining a problem statement for PFAS source classification.

Election Data Analysis for Kerala's Thiruvalla Constituency | *Python, Pandas, Excel*

Guide: Dr. Anand.S, IIT Madras

- Conducted an in-depth analysis of voting patterns and trends for Kerala's Thiruvalla constituency using historical election data.
- Extracted and cleaned data to ensure accuracy, removing noise and inappropriate records.
- Calculated key electoral metrics such as vote share, margin percentage, and identified instances of deposit loss and absolute majority.
- Utilized Python and Pandas for data manipulation and Microsoft Excel for final data formatting and presentation.

Uber Data Analysis | *GCP, BigQuery, Google Data Studio, Python, SQL*

Guide: Dr. Karthik Elangovan, SRM Ramapuram

- Developed a comprehensive data visualization dashboard using Google Data Studio, providing stakeholders with real-time insights into Uber ride patterns, demand forecasting, and user behavior.
- Leveraged Google BigQuery for efficient querying and analysis of large datasets, and Google Cloud Storage for data management, streamlining data operations.

- Implemented a data ingestion and processing pipeline using Python, enhancing the accuracy and speed of data analysis by 30%.
- Optimized decision-making processes by presenting key operational metrics and trends through interactive and dynamic visualizations, contributing to data-driven strategy adjustments.

AREAS OF INTEREST

- Research interests in Data Sciences and analytics, Artificial Intelligence, Machine Learning, Computer Networks, Intent based networking, Natural Language processing
- Personal interests include teaching methodologies, educational technologies and Fashion Designing.

ACHIEVEMENTS

- Awarded Topper badges in Python, English 1, and English 2 at the foundational level in the BS program at IIT Madras.
- Secured Rank 1 in the CSE-BDA department in B.Tech at SRM Institute of Science and Technology for three consecutive semesters.
- Achieved proficiency in Abacus, completing all necessary levels.
- Awarded 1st and 2nd ranks in English and Mathematics by the National Science Olympiad (NSO).
- Earned Hindi Proficiency certification from the Dakshin Bharat Hindi Prachar Sabha (DBHPS/India), having completed all required courses.
- Attained beginner-level proficiency in Sanskrit, awarded by Samskrita Bharati (India).
- Possess 7+ years of experience in Classical Dance (Bharatnatyam) and Carnatic Music, demonstrating significant artistic skills.

LANGUAGES

English (Full professional proficiency), **Hindi** (Full professional proficiency), **Tamil** (Bilingual proficiency), **Telugu** (Native proficiency), **Sanskrit** (Elementary proficiency)

RELEVANT COURSES

Computational Thinking, Probability and Statistics, Programming in Python, Machine learning foundations, Tools in Data Science, Data structures, Design and analysis of algorithms(C), Operating Systems(C++), Linear Algebra with Computational Applications, Database management systems, Object Oriented Programming (Java)

SOCIAL ENGAGEMENTS

- **Contigent Leader:** Of SRM University, representing 20 plus students at E-Summit IITM, a three-day entrepreneurship event organized by E-Cell IITM.
- **Volunteer:** at Leonard Cheshire Disability, a home for differently abled Children and Elders, for a month.
- **Sports-Engagements:** Kho-Kho(District level), Badminton(Beginner level), Chess(Intermediate level)