

S. DINESH KUMAR || 2021PECAI250

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PROFESSIONAL EXPERIENCE

INNOMATICS RESEARCH LABS

Junior Data Scientist Intern

India, Hyderabad

Jan 2024-Present (Remote)

ML Flow Model Experimentation:

Application Development:

Exploratory Data Analysis:

- Developed "Gen-AI A Multi-faceted AI Endeavor". Working on Gemini-1.5 pro LLM
- Utilized Chroma DB to develop a Search Engine using tfidf-vectorizer and Cosine similarity model for Movie Subtitles information retrieval system.
- Developed Real Time Sentiment Analysis on Flipkart Products reviews web application with Flask
Deployed the Web application on AWS
- Utilized ML Flow and Prefect Orchestration for model Experimentation and Model Management.
- Real-time Intern Demographic Analysis: Analysed and visualized intern demographics in real-time. Data Recovery and Misconduct Identification using python.
- Data-Driven Insights for Pizza Store Operations: Improved delivery performance and revenue management through data analysis.
- EDA of AMCAT Dataset and Hypothesis Testing: Investigated salary claims using exploratory data analysis and hypothesis testing.
- Regex Matching Web App Development and AWS Deployment: Created and deployed a regex matching web application on AWS

RadicalX AI

New York, NY

AI Engineer Intern

Nov 2023 – Jan 2024 (Remote)

- Constructed a Large Language Model for Prompt Parsing utilizing the GPT TURBO-3.5.
- Evaluated LLM responses where there isn't a single "right answer".

Zigson Technologies Pvt Ltd

INDIA

Data Analyst Intern

Dec 2023 – Dec 2023 (Remote)

- Designed a user-friendly dashboard using Power BI to analyze Global Superstore sales data.
- Enhanced data accuracy by building strong relationships between Attributes.

Technohacks Edutech Pvt Ltd

INDIA

DATA SCIENCE INTERN

Nov 2023 – Dec 2023 (Remote)

- Trained RandomForestClassifier with Accuracy: 81.05% on Telco Customer Churn Analysis.
- Created an interactive real-time Analysis Web dashboard to gauge the Analysis in real time

EDUCATION

PANIMALAR ENGINEERING COLLEGE

INDIA, TN

Bachelor of Technology in Artificial Intelligence and Data Science - grade-8.4 (upto 5th Sem)

2021-2025

Scholastic Achievements

- Copyrights Certified for my 1st Software Work Idea on the Domain of Artificial Intelligence.
- Secured 2nd Copyrights Groundbreaking HealthCare Solution in the domain of Artificial intelligence.
- Hacker Rank Skill Certifications and Obtained Gold Badge for Basic of Python.
- Hacker Rank Skill Certification and Obtained Silver Badge for the Basics of SQL.
- Hacker Rank Skill Certification for Software Engineer Intern Role.
- Udemy Certification for Numpy, Pandas, Matplot, Scipy and Machine Learning.
- Attained Gold Category with 81% in NASSCOM Certification for Data Science for Beginners.
- Microsoft and LinkedIn's Generative AI program, earned certification in Career Essentials.
- Secured Global Rank 164 in IEEE Extreme 17.0 coding Competition IEEE Excellence Award.
- Secured Top 10% in 6-hour Hackathon by Innomatics Research Labs
- Excelled among 20,000+ applicants and Shortlisted for Data Science Internship Opportunity.

VAILANKANNI MATRIC HIGHER SECONDARY SCHOOL

INDIA, TN

Higher Secondary Major in Mathematics and Biology

2020-2021

- Attained 93% of Class XII, TamilNadu Board

VAILANKANNI MATRIC HIGHER SECONDARY SCHOOL

INDIA, TN

SSLC, Major in Mathematics and Biology

2018-2019

- Attained 93.3% of Class X, TamilNadu Board

ADDITIONAL INFORMATION

- Technical Skills: Python,Flask,Streamlit,SQL&DBMS,EDA,MLOPS,Machine Learning,Data Analytics,PowerBI, NLP, AWS Deployment.
- Languages: Fluent in Tamil (native), English, Telugu.

RESEARCH ENDEAVORS

NLP

- Created a special voice assistant that understands how users feel when they speak.
- Developed a special way to give personalized advice based on how the user feels.
- Stands out as a friendly and supportive assistant, offering a special experience unlike others.

Web Application (Mlops)

- Collected and parsed data manually for sentiment analysis.
- Built Natural Language Processing Sentiment analysis model with Accuracy: **93.41%**.
- Constructed pipeline, TF-IDF vectorization and a **SVM** with linear kernel for model training.
- Integrated the model into a **Flask server** for real-time predictions.
- Designed and implemented a visually appealing web interface using basic HTML and CSS.
- Implemented user **registration** functionality using an **SQL database** within the Flask application.
- Conducted data recollection and visualized results in Excel.

Web Application (Thirukkural Bot)

- Involved developing **Thirukkural Web** application for quick detail Extraction for each Kural.
- Utilized Streamlit for UI Development
- Successfully tested the application prototype functions and results.

PUBLICATIONS

GCITC Conference IEEEExplore (2024) *(Published)*

- Presented Groundbreaking Research Paper in REVA University.
- Utilized advanced technology, including Mask R-CNN, Marching Cube Algorithm, voxelization and computer vision technique.

PEC TEAM Conference (2024) *(Yet to be Published)*

- Contributed Research on Decision Tree Classifier for Healthcare Resource Allocation System.

PEC TEAM Conference (2023) *(Yet to be Published)*

- Explored research on Trilateration Algorithm for Lost Object Tracking

SOCIAL IMPACT

- Dedicated my Commitment to Social Responsibility and to make Positive Community.
- Collaborated with Local Community, impacted over **70+kids** by providing Supportive education and Preventive Empowerment.

EXTRA-CURRICULAR ACTIVITIES

Sports - Cricket, chess, Carrom

Hobbies - Playing Mobile games, listening music,Drawing.