

MAKESH K

◇ +91 8508573229 ◇ 24, Madhumitha nagar, Dharapuram Road, Udumalpet - 642203

◇ makeshuddt97@gmail.com ◇ [Linkedin](#) ◇ [Github](#) ◇ [Portfolio](#)

PROFESSIONAL SUMMARY

Data Science professional with 2 years of experience, including a current internship at Rubixe - AI Company and previous roles as a member of the Data Science Team and Teaching Assistant at RVS Educational Trust. Skilled in building machine learning models, conducting data analysis, and creating visualizations. Expertise in techniques like regression, classification, clustering, and deep learning to generate actionable insights and drive innovation. Proven ability to collaborate with teams to deliver data-driven solutions and support decision-making. Currently advancing my knowledge through a Data Science course at Datamites Institute. Open to new opportunities in data science, with a strong focus on transforming data into valuable insights.

EDUCATION

M.Sc.[Computer Science] with Specialization Data Science , RVS College of Arts and Science	2019 - 2021
B.Sc.[Information Technology] , Kamalam College of Arts and Science	2016 - 2019
Diploma in Electrical and Electronics Engineering , Rudhraveni Muthuswamy Polytechnic College	2014 - 2016

SKILLS

- **Programming Languages:** Python, R, Java.
- **Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-learn, NLTK.
- **Data Analysis:** EDA, Statistical Analysis, Mathematics.
- **Data Processing:** Pandas, NumPy
- **Data Visualization:** Tableau, Power BI, KNIME.
- **Big Data Technologies:** Apache Spark, Hadoop.
- **Web Development:** Flask, Django, HTML, CSS, JavaScript.
- **Database:** Excel, MySQL, MongoDB.
- **Tools & IDEs:** Jupyter, VS Code, PyCharm.
- **Version Control:** Git / GitLab.
- **Cloud Platforms:** Google Cloud, AWS.
- **Algorithms:** ML Algorithm, Deep Learning, NLP, Time Series Analysis.

EXPERIENCE

Data Scientist Intern Rubixe - AI Company	Jan 2025 - present <i>Bengaluru</i>
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- Collaborated on machine learning and predictive modeling projects using Python, scikit-learn, and Tableau, achieving improved forecasting accuracy.
- Perform data preprocessing, including cleaning, feature engineering, and normalization.
- Develop and evaluate models using Python (pandas, NumPy, scikit-learn) and tools like Tableau for visualization.

TA - Data Science Team RVS Educational Trust	Nov 2021 - Jun 2023 <i>Coimbatore</i>
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- Conducted data cleaning, preprocessing, and model development to drive insights and solutions.
- Applied advanced ML techniques such as Regression, Classification, Clustering, and ANN/CNN.
- Collaborated with cross-functional teams to support data-driven decision-making and developed models for deployment.

PROJECTS

Boiler Blow Down (01/2022 - 04/2022)

- Developed a system to optimize boiler blow down intervals using machine learning and real-time sensor data.
- Improved operational efficiency, minimized water and energy consumption, and reduced chemical treatment costs.

Nutrition Recommendation System (12/2022 - 05/2023)

- Built a machine learning model for personalized nutrition plans using regression, clustering, and collaborative filtering.
- Enabled customized dietary recommendations based on user health profiles and dietary preferences.

Hotel Review Sentiment Analysis using NLP

- Designed an NLP-based sentiment analysis model using TF-IDF vectorization and Naive Bayes classification.
- Achieved 88% accuracy for real-time sentiment predictions, aiding businesses in analyzing customer feedback.

Air Passengers Time Series Analysis

- Analyzed monthly airline passenger data (1949–1960) using ARIMA and SARIMA models.
- Achieved 90% accuracy in forecasting and presented insights for strategic planning via Matplotlib.

Breast Cancer Classification Using ANN

- Developed an Artificial Neural Network (ANN) model to classify breast tumors with 95% accuracy.
- Used ReLU and Sigmoid activations, ensuring optimal performance with minimal overfitting.

CIFAR-10 Image Classification using CNN

- Built and deployed a CNN model using TensorFlow and Keras to classify images from the CIFAR-10 dataset.
- Achieved 75% accuracy and evaluated performance through training/validation metrics.

CERTIFICATIONS

- Machine Learning Scientist with R.
- R Programming.
- Python Course: Beginner to Advance Masterclass.
- Python Machine Learning.
- Data Visualization Using Tableau, Power BI
- ChatGpt and AI hacks with MS Office.
- Basic Proficiency in KNIME Analytics Platform.
- ChatGpt for Everyone

ACHIEVEMENTS

- **Robotryst.** Certificate of Merit, Zonal Round of Robotryst-2015
- **Guinness World Record.** Participated in the largest human representation of text in Goa, India, Feb 2019

ADDITIONAL INFORMATION

- **Languages:** English, Tamil
- **Availability:** Immediately available for data science-related roles and open to relocation.