

# ANISH KRISHNAN

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## SUMMARY

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Accomplished Data Scientist with over three years of specialized experience in building Image Recognition Models, Natural Language Processing (NLP), and data pipeline optimization. Proven track record of developing advanced machine learning solutions and automating benchmarking tools to enhance product quality and operational efficiency. Skilled in leveraging Python and SQL technologies to build and maintain scalable systems. Recognized for leadership capabilities, having effectively managed cross-functional teams to deliver innovative solutions and achieve key performance targets.

## EDUCATION

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### CONESTOGA COLLEGE

*Applied AI and Machine Learning*

**Relevant Coursework:** Deep Learning, NLP, Image Recognition.

*September 2023 – April 2024*

### CONESTOGA COLLEGE

*Predictive Analytics*

**Relevant Coursework:** Advanced Data Mining Techniques, Predictive Modeling, Statistical Analysis, Big Data Analytics, Data Visualization, Machine Learning Algorithms, Time Series Analysis, Decision Trees, and Random Forests.

*Jan 2023 – August 2023*

### GREAT LAKES INSTITUTE OF MANAGEMENT

*Post Graduate Program in Data Science and Engineering*

**Relevant Coursework:** Machine Learning, Artificial Intelligence, Data Visualization, Statistical Methods for Decision Making, Big Data Technologies, Python Programming, Advanced Analytics, Business Intelligence

*Jul 2018 – Mar 2019*

### SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

*Bachelor of Engineering, Computer Science and Engineering*

*Jun 2014 – Jun 2018*

## WORK EXPERIENCE

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### Intellect Design Arena Ltd.

*Consultant – Data Scientist*

*Chennai, India*

*Jun 2021 – Dec 2022*

- **Developed and optimized a Table Structure Recognition system** for processing client invoices, enhancing **data extraction** accuracy for both bordered and borderless tables by 30%.
- **Engineered a Column and Row Detection model** that significantly improved the detection accuracy of span for borderless tables, integrating these capabilities into the company's main service platform.
- **Implemented an automated benchmarking tool** using the Google Sheets API, which streamlined performance monitoring across multiple projects, reducing manual effort by 50%.
- **Designed a column classifier model** using **Natural Language Processing (NLP)** and transformers to standardize data tagging, increasing data usability for downstream analytics applications.
- Conducted extensive research on **Apache TVM** to **optimize** machine learning models, achieving a 20% improvement in model performance under production conditions

### TVS NEXT

*Machine Learning Engineer*

*Chennai, India*

*Apr 2020 – May 2021*

- **Led** the development of an **Applicant Tracking System** using **NLP**, which automated the extraction and ranking of candidate profiles, enhancing recruitment efficiency by 40%.
- **Created an Acronym Classifier** to decode acronyms in large legal documents, now integrated into client's master program, boosting document processing speed and accuracy.
- **Integrated a yolov5-based Object Detection model** into an iOS application for a security client using **CoreML**, enabling real-time threat detection through thermal imaging.
- **Directed** a team of 7 in building a **custom NER model**, managing the annotation process to ensure high-quality data labeling and model training.

### TVS NEXT, Rakuten (Client)

*Data Engineer - Support*

*Bangalore, India*

*Apr 2019 – Apr 2020*

- **Monitored and maintained** both on-prem and cloud-based data platforms for Rakuten Rewards, particularly during high-traffic events like Black Friday, reducing data loss significantly.
- **Handled** sensitive data operations on Hadoop systems using **Spark**, and managed data transactions with **Impala**, ensuring zero data leakage.

- Utilized **EMR** and **EKS** on **AWS** for running Spark applications and **Snowflake** to execute SQL scripts on PostgreSQL databases, enhancing data retrieval and storage processes.
- **Automated** error handling in production servers using Python, which decreased downtime and response time to incidents by 25%.
- Awarded the **Spot Award** for outstanding performance and dedication to the team's success.

## ADDITIONAL DETAILS

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### SKILLS:

- Deep Learning, Machine Learning, Natural Language Processing (NLP), Transformers, Generative AI (LLM)
- **Programming Languages:** Python
- **Platforms:** AWS, Tableau
- **Data Handling:** SQL, NoSQL
- **Tools:** CoreML, Apache TVM, Impala, LangChain, TensorFlow, PyTorch
- **Deployment and MLOps:** Docker, MLFlow
- **Soft Skills:** Problem-Solving, Excellent Written and Communication Skills

### CERTIFICATIONS:

- Big Data Certification, FITA Academy
- Cloud Computing Certification, Sathyabama Institute of Science and Technology

### AWARDS:

- **Multiple Best Performer awards at TVS NEXT and Intellect Design Arena Ltd.**

### EXTRA-CURRICULAR ACHIEVEMENTS:

- Participant in the 8th International Conference on Science and Innovative Engineering at Jawahar Engineering College, Chennai