

# Akash Kathole

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## EDUCATION

### Pimpri Chinchawad Education Trust - Ncer

*Bachelor of CSE Specialized in Artificial Intelligence*

**CGPA: 9.2/10**

*Jun. 2020 – May 2024*

### Pune University

*HSC, Science*

**69.54%**

*Jun. 2019 – Feb 2020*

### Harlalka English High School

*SSC*

**88.64%**

*Aug. 2018 – Mar 2019*

## EXPERIENCE

### MLOps Engineer

*SIL University, Pune*

**March 2023 – Present**

*Summer Internship*

- Gained hands-on experience in the end-to-end MLOps workflow, including data preprocessing, model training, deployment, and monitoring for an AI product.
- Developed strong collaboration and communication skills while working with cross-functional teams, effectively aligning efforts and overcoming challenges in areas such as data quality, model performance, and deployment.

### Data Science

*Weather Fighter Pvt.Ltd, Pune*

**December. 2021 – July. 2022**

*Internship*

- Developed and deployed machine learning models for predicting material requirements, performing EDA, and implementing AI solutions.
- worked on automation and collaborated to optimize inventory management and improve operational efficiency..

### Data Science and Business

*TheSparksFoundation, Pune*

**June 2021 – November 2021**

*Internship*

- Python code to collect, crunch, and analyze data from internal and external sources, utilizing techniques like web scraping, API integration, and database querying
- built and tuned machine learning models using Python, employing techniques such as feature engineering, preprocessing, and model evaluation.

### Machine Learning

*InternshipStudio, Pune*

**November 2022 – January 2023**

*Internship*

- Articulating revenue-related problems and acquiring relevant data to drive effective solutions.
- Establishing a bridge between decision-makers' visions and ML models, educating them on opportunities and limitations, and implementing iterative model development.

## PROJECTS

### Diabetes Prediction with MLOps | *Python, Docker, Mlflow, Prefect, AWS, PostgreSQL, Grafana* **2021 – 2022**

- Implementing MLOps for efficient management of the machine learning workflow and deployment
- Utilizing Kubernetes to automate model deployment and monitoring in the MLOps pipeline.
- Enabling continuous integration and deployment of ML models for improved performance and scalability.

### Automated Text Summarization System | *NLP, RNNs, Transformers, Keras, TextRank algo, Git* **2022 – 2023**

- Developed an automated Text Summarization System using advanced Natural Language Processing (NLP) techniques and machine learning algorithms to condense lengthy documents into concise summaries.
- Transformer architectures to extract key information and generate accurate and coherent summaries

## TECHNICAL SKILLS

Python, Linux, Machine Learning, Scikit-learn, Pandas, XGBoost, NumPy, Matplotlib, Seaborn, Deep Learning, TensorFlow, Keras, Pytorch, MLOps, ANNs, CNNs, RNNs, LSTM, Mlflow, Git, CI/CD pipelines, Prefect Orion, PostgreSQL, AWS, Docker.

## AWARDS RECOGNITION

- Top Finalist in Luminious Tech-A-thon
- Top in AWS Master Class
- Qualified JEE Advance

## PUBLICATIONS

**Research Paper submitted :** "Integrating MLOps and EEG Techniques for Enhanced Crime Detection and Prevention".