# Anurag Nagare

Dynamic and dedicated Python and AI developer with extensive experience in the education technology sector. Experienced in Python data science development, including neural networks, machine learning algorithms, and web development with Flask. Expertise in hyperparameter tuning to optimize machine learning models.

## CONTACT

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LinkedIN profile

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## EDUCATION

**Master's of Computer Application (M.C.A)**
2023
K.K Wagh College, Nasik

**Bachelor's of Computer Application (B.C.A)**
2021
K.K Wagh College, Nasik

## CERTIFICATIONS

Artificial Intelligence - IBM

Agile Project Management

Generative AI with Large Language Models

Python for Data Science, AI & Development

## SKILLS

**PYTHON**
● ● ● ● ○

**AI / ML**
● ● ● ● ○

**Data Science**
● ● ● ● ○

**Docker**
● ● ● ● ○

## LANGUAGES

English
Hindi
Marathi

## WORK & EXPERIENCE

**AI Robotics trainer**                    December 2023 - Present
STEMpedia, Ahmedabad

- Dedicated and innovative AI and Robotics Trainer with a proven track record in the education technology sector.

- Experienced in leveraging advancements in block coding through PictoBlox, introducing AI/ML concepts to Scratch, and implementing hardware solutions like Quarky.

- Adept at not only developing cutting-edge curriculum but also skilled in training educators and students. Passionate about fostering a dynamic learning environment that inspires creativity and problem-solving.

- Successfully integrated AI and ML concepts into PictoBlox, resulting in a 30% increase in student engagement and understanding.

- Developed and implemented a customized curriculum for student workshops, receiving positive feedback for increased interest and participation.

**Python Data Science Developer**          April 2023 - November 2023
Sai Info Solutions, Nashik

- As a Python Data Science Developer, I have been actively involved in a wide range of projects, contributing to the development and implementation of cutting-edge data science solutions. My responsibilities have included:

- Neural Networks and Machine Learning Algorithms: Designed and implemented various neural network architectures using TensorFlow and Keras for tasks such as image classification, natural language processing, and time series forecasting. Developed and fine-tuned machine learning models to solve complex business problems.

- Data Mining and Feature Extraction: Proficiently utilized data mining techniques to extract valuable insights from large datasets. Engineered and selected relevant features to improve model performance and enhance data-driven decision-making.

- Web Development with Flask: Built web applications using Flask to provide interactive data visualization and user interfaces for data science projects. Effectively integrated backend Python code with frontend technologies.

- Data Science Libraries: Leveraged popular data science libraries such as Pandas, NumPy, Matplotlib, and Seaborn to perform data analysis, visualization, and reporting.

- Hyperparameter Tuning: Developed expertise in hyperparameter tuning techniques, optimizing machine learning models using techniques like Grid Search and Random Search to achieve superior model performance.

## INTERESTS

Gaming
Travelling
Cricket

## RECENT PROJECTS

**PictoBlox Enhancement for AI and ML Integration (Current Position)**

Overview:Spearheaded a groundbreaking project to enhance PictoBlox, an innovative block coding software. Introduced advanced AI and ML concepts, revolutionizing the coding experience for students.
Key Achievements:
Successfully integrated AI/ML functionalities into PictoBlox, elevating the platform's capabilities.
Developed and implemented interactive modules, resulting in a 30% increase in student engagement and comprehension.

**Air Character Recognition**
Description: Implemented a comprehensive Air Character Recognition system leveraging six distinct algorithms: Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Artificial Neural Network (ANN), Support Vector Machine (SVM), Random Forest, and Decision Forest. Engaged in end-to-end project development, from data extraction and exploratory data analysis (EDA) to hyperparameter tuning and model evaluation.

**Integrated Hypertensity Detection in Eye Retina**

Description:Led a cutting-edge project focused on hypertensity detection in eye retina images, utilizing advanced algorithms and image processing techniques. Employed algorithms such as B-COSFIRE, Fully Convolutional Neural Network (FCNN), K-means clustering, Decision Tree, and Artificial Neural Network (ANN) to achieve accurate and efficient detection. Conducted in-depth analysis of retinal images, calculating key metrics like tortuosity, average ratio, and leveraging preprocessing techniques for enhanced model performance

**And many more..**