PRATEEK KARKERA

ARTIFICIAL INTELLIGENCE SOFTWARE ENGINEERING

orateek.r.karkera@gmail.com	+91 9773594132	Santacruz, Mumbai, India					
PERSONAL DETAILS							
Prateek Ramesh Karkera Date of Birth: 15 th Jan 2001 Male Unmarried							
Languages known: English, Marathi, Hindi Hobbies: Learning, Swimming, Gym, Sports							
SKILLS							
4 Python Scikit-Learn Tensorflow Keras Pytorch Flask Streamlit Gradio							
Pandas Numpy Excel PowerBI Matplotlib Seaborn SQL Git NodeJS							
Generative AI Models Large Language Models (LLMs) Transformer Models GANs							
Exploratory Data Analysis Feature Engineering Data Modelling Hyperparameter Tuning							
Customer Behaviour Churn Neural Networks Sentiment Analysis Classification							
	EDUCATION						
EDUCATION							
Master of Science (Artificial Intelligence)	CGPI 9.52	2021-23					
Bachelor of Science (Information Technology	gy) CGPI 9.55	2018-21					
XII HSC (Science)	Score 77.38%	2018					
X SSC Board	Score 90.20%	2016					
	RESEARCH						
Published Technical Research Paper on "Optimization Techniques of Quantum Neural Network for							
Image Classification" for Springer Journal at ISDA 2023, International Conference on Intelligent							
Systems Design and Applications.							
Published Research Paper in IJIRT on "Quantum Techniques for Particle Swarm Optimization"							
OTHER ACHIEVEMENTS							
Placed 5 th in Mumbai Code Execution Championship 2019 for C Programming							
	Prateek Ramesh Karkera Date of Birth: 15 Languages known: English, Marathi, Hindi Python Scikit-Learn Tensorflow Kera Pandas Numpy Excel PowerBI Ma Generative AI Models Large Language M Exploratory Data Analysis Feature Engin Customer Behaviour Churn Neural Net Master of Science (Artificial Intelligence) Bachelor of Science (Information Technolo XII HSC (Science) X SSC Board Published Technical Research Paper on "Op Image Classification" for Springer Journal Systems Design and Applications. Published Research Paper in IJIRT on "Que	PERSONAL DETAILS Prateek Ramesh Karkera Date of Birth: 15th Jan 2001 Male Unmarrie Languages known: English, Marathi, Hindi Hobbies: Learning, Swimmi SKILLS Python Scikit-Learn Tensorflow Keras Pytorch Flask Streat Pandas Numpy Excel PowerBI Matplotlib Seaborn SQL Generative AI Models Large Language Models (LLMs) Transformer Exploratory Data Analysis Feature Engineering Data Modelling Numpy Excel PowerBI Matplotlib Seaborn SQL Generative AI Models Large Language Models (LLMs) Transformer Exploratory Data Analysis Feature Engineering Data Modelling Number Pata Modelling Number Sentiment Analysis EDUCATION Master of Science (Artificial Intelligence) CGPI 9.52 Bachelor of Science (Information Technology) CGPI 9.55 XII HSC (Science) Score 77.38% X SSC Board Score 90.20% RESEARCH Published Technical Research Paper on "Optimization Techniques of Quage Classification" for Springer Journal at ISDA 2023, International Systems Design and Applications. Published Research Paper in IJIRT on "Quantum Techniques for Particle OTHER ACHIEVEMENTS"					

Hackerrank Certifications | Python (Basics) | SQL (Basics) | Problem Solving (Basics)

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------ PROJECTS ------

Name Of The Project

Skills & Tools Used

Quantum Neural Network based Web App for Galaxy Classification https://quantumgalaxy.onrender.com/

Quantum Neural Networks, Flask, Pytorch, Qiskit, Optimization, Image Classification, Deep Learning,

AI Virtual Assistant with User Interface https://youtu.be/i-t_0G4j8Kw

Python, PyQt5, Speech to Text, Preprocessing and Stopword Removal, Working with APIs

VITGPT2 based Image Captioning Model

Streamlit, VisionEncoderDecoderModel, ViTFeatureExtractor, Tokenization, Image Captioning

DCGANs Cartoon Image Generator

Gradio, Deep Convolutional Generative Adversarial Networks (DCGANs), Keras, Tensorflow, Cartoon_20000 Dataset, CNN, Deep Learning

End-to-End Depression Prediction Web App https://depressionprediction.onrender.com/ Flask, Collection for PHQ9 Data, Selective Modelling, Ensemble Model, Gradient Boosting, SVM, Decision Trees, Random Forest, Hyperparameter Tuning, GridSearchCV

Vision Transformers for Classification

Vision Transformers, Self-Attention, Multihead Attention Model, Image Recognition & Classification, MNIST

NLP Sentence BERT Recommendations

Sentence-BERT, Sentence Embedding, Sentence Transformer, Semantic Textual Similarity, Cosine Similarity Recommendations

Thyroid Detection Web App https://thyroiddetection.onrender.com/ Flask, Exploratory Data Analysis (EDA), SMOTE, Feature Modelling, Random Forest, Sequential Feature Selection, Hyperparameter Tuning, RandomSearchCV & GridSearchCV

German to English Translation

Streamlit, Neural Machine Translation, Seq2SeqTransformer, Tokenization, Masking from future tokens, Positional Encoding, Multi30k EngGer Dataset

Sentiment Analysis and Customer Churn Behaviour Analysis on British Airways Data Web Scraping, Sentiment Analysis using VADER, Parts of Speech Tagging, Data Modelling, XGB Classifier, Customer Churn Analysis

Customer Buying Behaviour on Cognizant Sales Data

Exploratory Data Analysis (EDA), Data Modelling, Random Forest Regressor Model