MOHAMMED FARHAN BALUCH

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	4+ Years of Python Programming experience demonstrated through courses by sco	oring 90%+, being a			
	programming intern, and leading several projects involving heavy Python usage 3+ Years of Machine Learning experience exhibited through several research projects, publications, and				
	mentoring students at Deeplearning.AI	•			
	Software Development Skills exhibited through experience working as a Programm	ning Intern and working with			
	JavaScript, C#, .NET and attending weekly agile meetings using Jira Web-Development Skills denoted by working as a Web Development Intern and pa	ussing the Microsoft			
	certification 'MTA – HTML & CSS'	assing the Microsoft			
	Problem-Solving, Leadership, and Communication Skills portrayed through lead university website, collaborating with several professors and colleagues for research sessions for undergraduate students				
	TECHNICAL SKILLS				
Pr	rogramming Languages				
	Python, SQL, C, C++, Java, HTML, CSS, JavaScript, C#				
Fr	rameworks				
	.NET, React, jQuery, Spring Boot, Postman, Scikit-learn, TensorFlow, Keras, Matpl OpenCV, Pandas, NumPy, Seaborn, Shell Scripting, LaTeX, d3.js, Agile	otlib, PyTorch, NLTK,			
To	ools & Technologies				
	Git, Gitlab CI/CD, Docker, MySQL, Azure DevOps, Apache Hadoop, Apache Spark UNIX, AWS, Jupyter, VS Code, Microsoft Office Suite: Word, Excel, Powerpoint, Stubernetes, RESTful API, PostgreSQL, spaCy, OpenAI API				
	EDUCATION				
M	aster of Science Computer Science Artificial Intelligence Stream Co-op	Sep 2022 - Present			
	niversity of Windsor, Windsor, ON	5 ep 2 0 2 2 1 1 e 5 e 1 0			
	Cumulative GPA: 92.2 / 100				
	schelor of Technology in Computer Science	Jul 2018 - Jul 2022			
	t Bhopal University, Bhopal, IN				
	Cumulative GPA: 8.95 / 10.0				
	EXPERIENCE				
ΑI	Developer, Agriculture & Agri-Foods Canada, Harrow, ON	May 2023 - Aug 2023			
	Developed a web application to address challenge of accurately identifying plant dismildew with 98.3% accuracy	eases, focusing on powdery			
	Collaborated in development of an Agri-Foods chatbot based on GPT-4 architecture Created an internal tool called as PDF Parser to help HR department in extracting in Resume and Cover-letters using spaCy				

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	Conducted lab sessions and solved students' queries for 40+ students every week for Computer Architecture (COMP-2660) and Systems Programming (COMP-2560) courses					
	Grading 50+ students' exam papers and assignments and held 1-on-1 sessions for students	lents in need of extra help				
Pr	ogramming Intern, Coderspacket, Vadodara, India Developed 3 reusable open-source code packets using JAVA & Python. Packets inclusystem, registration system for colleges & chatbot interface	Apr 2021 - Jun 2021 aded facial recognition				
	Created packets were deployed using Docker and downloaded 100+ times by fellow open source projects & scaling applications & process improvement	developers for use in bigger				
	Performed functional testing and debugging for developed packets Worked in the transition of a monolithic app into a microservice architecture using .N	IET & C# as part of a team				
W	eb Development Intern, Verzeo, Vadodara, India	Dec 2019 - Jan 2020				
	Responsible for developing and designing login, registration, and other fragmented components using HTML, CSS, JavaScript, Material-UI and React framework.					
	Worked closely with team members and actively participated in weekly Agile meetings with Jira					
	Led a team of 4 members to execute the back-end functioning of the site using NodeJS, SQL & Git.					
	Worked on producing dynamic data graphs for company's website using JavaScript li	brary - D3.js				
Pa	per Reviewer & Program Committee Member, IEEE - AIC, Remote	May 2022 - Jun 2022				
	Reviewed & critiqued 10 research papers for the IEEE world conference - Applied Ingave detailed feedbacks on scope of improvements					
	Ensured smooth conduct of conference by holding meetings with other committee me team by creating data reports & providing creative solutions for quality improvement	mbers and helping technical				
Co	ourse Mentor, DEEPLEARNING.AI, Remote	Aug 2021 - Dec 2021				
	Mentored 50+ students for 'AI for Medicine' course on Coursera & solved programmi queries using insightful solutions					
	Suggested 4 major improvements in course contents & shared data analytics, and prepared reports for the DLAI					
	team to improve quality, customer satisfaction & service delivery Updated technical documentations to enhance course delivery process					
	opulated technical documentations to chilance course derivery process					
	PROJECTS					
SA	AM - College Chatbot					
	Led a team of 4 on a retrieval-based Natural Language Processing (NLP) chatbot to a	utomate common college-				
	related queries responses, used by 700+ students after integration with college websit	e				
	Constructed using Scikit-learn & NLTK packages in Python and optimized response	generation using TF-IDF				
	approach & cosine math similarity to achieve 92% accuracy Automated the testing and deployment of the application using Gitlab CI/CD pipeline	5				
		,				
Et!	hereum Fraud Detection Applied various data visualization and analysis methods on Ethereum blockchain data	asets to build a solution for				
	preventing frauds	asets to build a solution for				
	Devised a modified Light Gradient Boosting Machine (LGBM) algorithm for accurat transactions and performed a comparative analysis with 12 best machine-learning alg					

Internet Usage v/s Suicide Rate Analysis

Vertex AI

□ Proved hypothesis internet usage is directly related to number of suicides per 100 leveraging data analysis & interpretation tools in Python

Performed a comparative analysis with 12 best machine-learning algorithms by deploying ML models on GCP

☐ Tuned model with hyper-parameters' optimization to achieve an accuracy of 99.03%

	Applied 'gapminder' code book dataset and performed data extraction using Pandas for various countries and created a dashboard using PowerBI business intelligence tool					
	ntiment-driven Stock Prediction Developed a cutting-edge stock prediction model by incorporating semantic analysis and sentiment features extracted from textual data sources, such as news articles and social media posts Integrated financial news data and stock market data using the AlphaVantage API and Implemented an LSTM (Long Short-Term Memory) attention model using PyTorch for stock price prediction Achieved outstanding performance metrics on historical IBM stock data, including a Mean Squared Error (MSE) of 0.046 h Image Classification Identified fish ecosystem species by utilizing segmentation of fish images obtained from dataset with over 9000 images and 20 features Compared feature extraction performance with Inception, ResNet, EfficientNet etc. models to validate credibility of proposed model					
	Observed data-driven approach confirmed deep learning model to be leading model with an accuracy of 99.68%					
_	PUBLICATIONS	_				
dei Ba fra De Ma	luch, M. F., Patel, S., Aziz, R. M. & Ganie, A. H. (2022). LGBM: a machine learning approach for Ethereum fraudection. International Journal of Information Technology, 1-11. luch, M. F., Patel, S., Aziz, R. M. & Kumar, P. (2022). A machine learning based approach to detect the Ethereum and transactions with limited attributes. Karbala Int. J. Mod. Sci, 8, 139-151. sai, N. P., Wadhwani, A., Baluch, M. F., & Mishra, N. (2021, September). A Comparative Assessment Study on chine Learning Classifiers for Cardiac Arrest Diagnosis and Prediction. In 2021 International Conference on ovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES) (pp. 1-6). IEEE.					
	AWARDS					
De	partmental, University of Windsor - \$4,000 Awarded for scoring 90%+ in all graduate level courses in Fall 2022 term	3				
Pr	Divincial, Ontario Graduate Scholarship - \$15,000 Sep 202 Awarded 1 out of 4 available awards for international students at University of Windsor with 2500+ students	2				
95	th /40,000, National Engineering Olympiad 4.0 Jun 202	1				
1s1	/300, VIT Bhopal Mathematics Quiz competition Mar 201	9				
In	titutional, VIT Bhopal GVSDP Scholarship - \$1,000 Jul 201	8				
	CERTIFICATIONS	_				
M	achine Learning: Algorithms in the Real-World, Coursera (Specialization) Aug 202	1				
Da	ta Management & Visualization, Coursera (Wesleyan University) Jul 202	1				