

# HAFIZ MUHAMMAD SHEHARYAR

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## TECHNICAL SKILLS

- Python, Machine Learning, Deep Learning
- ChatBots with *Dialogflow & RASA*
- Natural Language Processing (NLP), Text Cleaning, Parsing, Training
- Kubeflow, Kubernetes, Docker
- Data Visualization with Matplotlib, Seaborn
- Convolutional & Recurrent Neural Networks
- Data Analytics, Predictive Modeling
- ASP.NET (WebForms + MVC + WebApi 2.0)
- Angular 5
- Android App Development
- Database Modeling

## LIBRARIES & ALGOS

- Scikit-learn, Pandas, Numpy
- NLTK, spaCy
- TensorFlow, Keras
- Regression, Classification, Clustering
- Decision Trees, Random Forest

## TOOLS & PLATFORMS

- Jupyter, Spyder, PyCharm
- AWS, Microsoft Azure, Heroku
- Visual Studio, Visual Studio Code
- MS SQL Server, MySQL Workbench
- Android Studio

## AWARDS & RECOGNITIONS

- Microsoft Certified Professional in C#
- Batch Topper @ GC University
- Scholarship Holder @ GC University
- Vice Chairperson @ ACM Society
- Vice Chairperson in All Pakistan Tech & Art Fest for ACM Society.



## Highlights

- Self-initiated towards Data Science with [23 Certifications](#) and [5 IBM Badges](#).
- Developed ChatBots using *Dialogflow*, *RASA* and Seq2Seq NLP Methodology.
- Completed [Deep Learning Specialization](#) by Andrew Ng.
- Completed [Python Specialization](#) from University of Michigan.
- Hands-on experience with **Scikit-Learn | NLTK | TensorFlow | Keras**.
- Authored [Data Science for interview](#) blog series.
- MCP (Microsoft Certified Professional) in C#.

## Academic Background

Python Specialization	Coursera   University of Michigan	A+	2018
Deep Learning Specialization	Coursera   Andrew Ng	A+	2018
BS (Hons.) Computer Science	GC University, Lahore	3.66 / 4	2013-2017

## Work History

Software Engineer – Data Science @ TkXel	(4 Months – Continued)
Software Engineer @ Techlogix	(1 Year)
Software Engineer @ WorkMobile, Private Limited	(1 Year)
Software Engineer (intern) @ TechHub, PITB	(4 Months)
Software Engineer (intern) @ Microsoft, Lahore	(6 Months)

## Projects

### Industrial

- **Complaint ChatBot:** A WhatsApp integrated Complaint ChatBot for Urban Galleria that would register complaints by the customers. [[python based conversational AI - RASA](#)]
- **HR ChatBot:** A Skype integrated HR ChatBot to take employees' queries and give answers related to company policies by intelligently parsing the employee handbook. [[Dialogflow](#)]
- **Kubeflow (Kubernetes):** A Kubeflow (Kubernetes) infrastructure on AWS to facilitate a complete ML pipeline by scaling up/down the nodes in response to the load.
- **Wake-Word Engine:** A Wake-Word engine that woke up the system by identifying keywords in the fed audio stream. [[Porcupine – a python library](#)]
- **Seq2Seq ChatBot:** A Deep Learning ChatBot built using [Seq2Seq NLP Methodology](#) and trained on the textual corpuses of Movie Dialogues and scrapped Twitter newsfeed data.
- **Sentiment Analysis:** Supervised Sentiment Analysis agent trained on movie reviews.
- **Punjab Kitchen:** A Record Management Web Portal for a restaurant whole food supplier based in UK. [[ASP.NET MVC, Entity Framework Database-first approach](#)]
- **WorkMobile Portal:** A web portal to perform CRUD operations on the records captured from hand-held devices using WorkMobile's Mobile App. [[Angular 4](#)]
- **Sales & Distribution Portal:** A cloud-based software for S&D operations. [[ASP.NET MVC](#)]

### Academic

- **Final Year Project:** A Food Portal titled “Foodlings” with emphasis on the Food Reviewing System. [[Android App + WebApi in ASP.NET MVC](#)]