

BILAL HAMEED

Email: bilalhameed248@gmail.com

Cell: +923215233710

Linkedin: /bilalhameed248

Github: github.com/bilalhameed248

EXPERIENCE

- **MTBC CareCloud Inc.** Islamabad Pakistan
Jr. Data Scientist (Full-time) Feb 2022 - Present

PROJECTS

- **Chart-Review Bot Document Parser API:** Designed & Developed a generic Data Extraction end-to-end pipeline, for Chart-review bot using complex (Plain + Tabular) Patient PDF document Charts. (PyMuPDF, Fitz, NLTK, Spacy, OOP, Python-stack). [GitHub](#)
- **Chart Review Bot:** Designed & Developed Chart Review Bot - A Patient Charts Auditing System, which reads through the patient appointment reports and assigns scores to component like (HPI, PLOF, Patient baseline-status etc) using natural language processing. (Bio-BERT V1.1, RASA, Pytorch Spacy, NLTK, Fitz, Python Flask-backend).
- **Delay Reason Extraction Model:** Developed Delay Reason Extraction Model, which analyze the document and extracts the reason for Patient delay in Appointment (BERT, Tensorflow, HuggingFace Trainer API). [GitHub](#)
- **Coding-bot:** Developed CodingBot - A LSTM based DNN Bot, that parses NERs (Problems, Procedures and Medications) from Patient HPI (History of Present Illness) text, and assign ICD-10, CPTs and RxNorm codes accordingly. (LSTM, DNN, Spacy, NLTK, Pandas, Requests, Numpy, Python-stack, Flask-backend). [GitHub](#)
- **Urdu to Eng Machine Translation:** Developed Urdu to English machine translation model by fine tuning pre trained model using huggingface trainer API. (Seq2Seq, Encoder Decoder, Huggingface Pipeline). [GitHub](#)
- **News Classification Model:** Developed News classification model by fine tuning pre-trained gpt2 and bert-base-cased. (NLP, GPT2, TensorFlow, PyTorch, BERT, HuggingFace Trainer API). [GitHub-BERT-base-cased](#) [GitHub-GPT2](#)

- **ConstRoot Systems Inc.** Islamabad Pakistan
Web Developer (Full-time) Sep 2021 - Feb 2022

PROJECTS

- **ConstRoot:** A construction management solution for general contractors based on Php Laravel, MySql, JQuery, Html and CSS. [constroot.com](#)

- **ADMK Sokutions.** Islamabad Pakistan
Web Developer (Full-time) Sep 2020 - Aug 2021

PROJECTS

- **NWSFD:** Designed and developed a news website bot based on Php CodeIgniter, MySql, JQuery, Html and CSS. [nwsfd.com](#) [GitHub](#)
Bot Operation:
 - * Open webmail/gmail through IMAP.
 - * Create a list of news link by reading all unseen webmail/gmail from email body. (Job Scheduling)
 - * Visit all news link recursively and fetch title description and image.
 - * Store all data in db and display it on front-end.
- **Schools Management System:** Designed and developed school management system for KSA based on Php Laravel, MySql, JQuery, Html and CSS [GitHub](#)
- **Newface:** Designed and developed Web based Job Portal using Php CodeIgniter, MySql, JQuery, Html and CSS. [newface.mk](#) [GitHub](#)

SKILLS SUMMARY

- **Deep Learning and NLP:** PyTorch, TensorFlow, Keras, CNN, RNN, LSTM, GRU, Transformers, BERT, Spacy, Gensim.
- **Machine Learning:** Classification, Regression, Clustering, PCA, Ensemble methods (Bagging, Boosting etc).
- **Languages:** Python, PHP, C++, JavaScript, SQL, Bash, JAVA.
- **Frameworks:** Django, Flask, Scikit, NLTK, SpaCy, TensorFlow, Keras, Laravel, Java Swing, Java Fx.
- **Tools/IDEs:** Vim, VSCode, Jupyter Notebook, GIT, PostgreSQL, MySQL, SQLite
- **Version Control:** Git, Jira, Azure
- **OS:** Linux, Ubuntu, Windows.
- **Front-end Technologies:** HTML, CSS, JQuery.

SPECIALIZATION / CERTIFICATION

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| • IBM Data Science Professional Certificate: | July 2021 - Sep 2021 | View Certification |
| • AWS Fundamentals Specialization: | Sep 2022 - Oct 2022 | View Certification |

EDUCATION

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|---|-----------|
| • BS Computer Science (International Islamic University Islamabad) <i>July 2016 - June 2020</i> | GPA: 3.59 |
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