BILAL HAMEED

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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 descriptiona and image.
   * Store all data in db and display it on frontend.

○ **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.
- **Frontend Technologies**: HTML, CSS, Jquery.

CERTIFICATION

- **IBM Data Science Professional Certificate**
  July 2021 - Sep 2021

EDUCATION

- **BS Computer Science (International Islamic University Islamabad)**   GPA: 3.59
  July 2016 - June 2020