JUAN PABLO TREVIÑO LOZANO

STUDENT IN COMPUTER SCIENCE AND TECHNOLOGY ENGINEERING

CONTACT DATA

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IDENTIFICATION DATA

Birth date: 04/10/2000
Nationality: Mexican
Residency: Monterrey, Nuevo León, Mexico

PROFILE

Last-semester university student, developing in the area of Data Science and Artificial Intelligence.

I am interested in a job that allows me to contribute to the company, applying and developing my knowledge in data collection and analysis or predictive models.

EDUCATION

University: ITESM Monterrey Campus
GPA: 98/100
Graduation: June 2023
Exchange at Concordia University in Montreal, Canada, taking Data Science and Machine Learning courses.
Academic Mentor of Excellence

WORK EXPERIENCE

Attraction Services Intern

ITESM, Feb 2022- Present

System migration used for inbound marketing:

- CRM management
- API creation
- Existing API usage
- Following email automatization (Jira, Salesforce, Hubspot)

CERTIFICATES

Machine Learning - Stanford Online
In progress: Data Engineering - IBM
In progress: Machine Learning model deployment

LANGUAGES

Spanish: Native Italian: Advanced Korean: Basic
English: Advanced French: Intermediate

PROFESSIONAL SKILLS

- Project Management knowledge and its different roles.
- Knowledge in software development methodologies, including Agile and SCRUM.

PROGRAMMING LANGUAGES

- Python
- R
- Java
- C++
- MATLAB
- Clojure
- Racket

Query languages for relational and NoSQL databases

- SQL
- MongoDB

Web development languages

- HTML
- CSS
- Javascript

DATA ENGINEERING

- **Data pipelines**
- **API usage**

Architecture design diagrams for databases and software systems.

API development: • Node.js • Flask

Web crawling & scraping: • Scrapy • BeautifulSoup

Data wrangling: • Numpy • Pandas • SciPy

Data repositories

RDBMS: • MySQL • PostgreSQL

NoSQL: • Document-based databases - MongoDB

DATA SCIENCE

- Data structures
- Advanced algorithms

Data visualization: • Matplotlib • Seaborn

Practical and theorical knowledge in Machine Learning and Deep Learning:

Supervised and unsupervised learning models

- Linear & polynomial regression
- KNN
- Bagging
- Neural nets
- Logistic regression
- Maximum Likelihood
- Gaussian Mixtures
- Naive Bayes
- Boosting
- Convolutional NN
- SVM
- Kernel Density
- K-means
- Decision trees
- Random forest
- Recurrent NN

Model evaluation metrics

Machine Learning and Deep Learning libraries

- Tensorflow
- PyTorch
- scikit-learn

RELEVANT PROJECTS

- Deep learning Natural Language Processing system to predict task effort given a user story. Deep Learning model deployed in web page. (Python, TensorFlow, Flask)
- Experimentation on the effects of dropout in overfitting models of 7 datasets. (Python, TensorFlow)
- Sentiment analysis on clustered documents retrieved by web scraping. (Python, Scrapy, BeautifulSoup)
- Diverse Machine Learning models for water potability prediction. (Python, scikit-learn)
- Agent based vehicular traffic simulation with intelligent traffic lights. (Python, AgentPy, Unity)
- Gamification and web page project for Cemex. (SQL, Unity)
- Web page management for the Academic Mentors of Excellence of the Tec de Monterrey. (SQL, Node.js)