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Egemen Eroglu

Student/DataEngineer

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S

Languages: Python,C++,SQL,Unix/LinuxScripting,Git
Cloud Platforms & Databases: Azure,Databricks,MongoDB,PostgreSQL,MSSQL,IBMDB2,IBMNetezza,OracleDB
Data Engineering: PySpark,Airflow,Airbyte,Spark,Kafka,RabbitMQ,IBMDataStage
Web Development: Django,Flask,FastAPI,HTML,CSS

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Data Engineer — **Istanbul, Turkey**
BoschGmbH — ~~October~~10/2023—Present

- ~~IntegratedpredictivemaintenanceandRemainingUsefulLife(RUL)strategiesintoexistingsystems,improvingequipment reliabilityby25%.~~
- ~~Developedarecommendationsystemtoanalyzeproductiondata,optimizingwheeldesignandreducingscrapratebу15%~~Colla boratedwithcross-functionalteamstointegratepredictivemaintenanceandRemainingUsefulLife(RUL)strategiesinto existingsystems,resultingina25%improvementinequipmentreliability.
- Createdarecommendationsystemtoanalyzeproductiondataandoptimizewheeldesignparameters,resultingina15% reductioninscraprateduringinitialproductionruns.

DWH & Data Engineer Intern — **Istanbul, Turkey**
Halkbank — ~~July/2023~~ ~~October~~07/2023—10/2023

- ~~ContributedtotheNetezzatoOraclemigrationproject,ensuringaseamlesstransitionforover100databaseswithminimal disruption.~~
- ~~OptimizeddataintegrationthroughIBMDataStage'sETLprocesses,achievingcostsavingsof20%~~Assistedinsuccessfullyco mpletingtheNetezzatoOraclemigrationproject,contributingtoaseamlesstransitionforover100 databasesandensuringminimaldisruptionsforendusers.
- StreamlineddataintegrationthroughIBMDataStage'sETLprocessescandelivercostsavingsofupto20%byoptimizing resourceutilizationandreducingprocessingtimes.

ML Researcher — **Istanbul, Turkey**
KocUniversity[PaperLink] — ~~July/2023~~ ~~July~~07/2023—07/2024

- ~~CollectedandanalyzeddataoninternationalfinancialinstitutionsusingMLalgorithmsandNLPtechniques,improvingIMF programpredictionaccuracyby15%.~~
- ~~Createdamachinelearningmodeltopredictloansizesand IMFconditions,enhancingpredictivepowerby30%~~Conductedcomp rehensivedatacollectionandanalysisoninternationalfinancialinstitutions,specificallytheIMF,utilizingML algorithms,NLPtechniques,andstatisticalmethodsresultingina15%improvementintheaccuracyofpredictingthetermsof IMFprograms.
- Developedandimplementedamachinelearningmodelthataccuratelypredictedloansizes,numberofIMFconditions,and waiversduringprogramimplementation,improvingpredictivepowerby30%comparedtotraditionalstatisticalapproaches.

Data Engineer - Team Lead — **England, United Kingdom**
~~Jeton Digital Ltd.~~ — ~~March/2023~~ ~~June~~JetonDigitalLtd. — 03/2023—06/2023

- ~~Ledmigrationoflegacysystemstocloud~~Ledmigratinglegacysystemstoacloud-basedinfrastructure,~~cuttinginfrastructurecostsby40%andenhancingscalability~~resultingina40%reductioninInfrastructurec ostsandimproved scalabilityandperformance.
- ~~Designedandoptimizeddataarchitecture,reducingdatastoragecostsby20%~~Collaboratedwithstakeholderstodesignandoptimizethedat aarchitecture,resultingina20%reductionindatastoragecosts.

Data Engineer **England, United Kingdom**
Jeton Digital Ltd. September/2022 —
MarchJetonDigitalLtd. 09/2022—
03/2023

- Developedandmaintainedadatabasebackupandrecoveryplan,reducingdowntimeby70%.
- AutomatedETLprocesseswithApacheAirflow,saving20+hoursofmanualworkweeklybyloading1.5MrowsdailyDesignedandmaintainedadatabasebackupandrecoveryplanthatensureduninterruptedaccesstocriticalbusinessdata duringsystemoutages,reducingdowntimeby70%.
- CreatedETLprocesseswithApacheAirflow,andloadingof1.5Mrowsofdatadailyintothecompanydatawarehouse;savedthe team20+hoursofmanualworkperweek.

ML Researcher **Istanbul, Turkey**
Bahcesehir University January/2023 —
JuneBahcesehirUniversity 01/2023—
06/2023

- PartofaresearchgroupunderAssoc. Dr. TevfikAytekin,focusingonmachinelearningandrecommendationsystems.
- CollaboratedtodeveloparecommendationsysteminC++SupervisedbyAssoc. Dr. TevfikAytekin,theMachineLearningandRecommendationSystemsResearchGroupresearches machinelearningandrecommendationsystems.
- CollaboratedwithateamofresearcherstodevelopandimplementarecommendationsysteminC++.

Data Scientist Intern **Istanbul, Turkey**
SmartOpt July/2022 —
August07/2022—08/2022

- DesignedaPythonoptimizationmodeltoenhanceproductionplans,increasingprofitsby15%andreducingenvironmental impactby20
- Analyzeddatatoidentifykeyfactorsincustomerchurn,resultinginstrategiesthatreducedchurnrateby10DesignedPythonoptimizationmodeltogenerateoptimalproductionplans,resultingina15%increaseinprofitswhilereducing environmentalimpactby20%.
- Conductedextensivedataanalysisandstatisticalmodelingtoidentifykeyfactorsdrivingcustomerchurn,leadingtothe developmentoftargetedretentionstrategiesthatreducedchurnrateby10%.

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Bahcesehir University,Computer Engineering October10/2022—Present **Istanbul University**,Management Information Systems October10/2022—Present **Beykent University**,Computer Engineering October/2020—June10/2020—06/2022