Vee Upatising

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Computer Engineering graduate with hands-on experience in software engineering and database administration. Diligent self-starter with an interest in Python development concentrated on Data Science and Deep Learning.

EDUCATION

University of Massachusetts Amherst — May 2020
Bachelor of Science in Computer Engineering, GPA 3.18

COURSEWORK

Machine Learning, Artificial Intelligence, Computer Vision, Data Science, Probability, Algorithms, Data Structures, Statistics, Software Engineering, Linear Algebra, Signals and Systems, Circuit Analysis

WORK EXPERIENCE

Fast Enterprises, LLC – Salt Lake City, UT
Implementation Consultant Intern — Summer 2019

- Interned as a developer on the Vehicle and Dealer Registration System used by all DMV offices in Utah
- Performed End-to-End and Stress Testing for various processes within the VADRS program
- Implemented an internal email subsystem within the program to better facilitate in-office communication
- Worked with QA testers to fix critical production errors in a development-testing-staging-production cycle
- Optimized SQL queries by removing site indexes and reworking index scans into index seeks
- Consulted with business analysts to configure the system to their specific needs
- Documented all classes within 75 business critical VB.NET projects
- Trained full-time employees on how to effectively use the Learning Manager subsystem

PROJECTS

View on my GitHub or Kaggle profile

Deep Color

- Developed a system of adversarial neural networks to restore color to grayscale images
- Designed neural network architecture using Keras and TensorFlow in Python
- Succeeded in restoring color to paintings, animations, and television shows

Recycle Bot

- Designed a system that can classify and physically sort trash and recyclable waste using Python and Raspberry Pi
- Built platform where waste is photographed, classified using Support Vector Machine, and sorted using Servo motor
- Accomplished successful classification of trash and recyclables tested on most common items discarded in the local area

Kernel Ridge Regression

- Programmed Kernel Ridge Regression and Basis Expanded Ridge Regression from scratch using NumPy
- Compared results from Polynomial and Trigonometric kernels and performed model selection using K-Fold Cross Validation
- Achieved 1st place accuracy in graduate level Machine Learning course Kaggle competition

CERTIFICATES

Data Scientist – Workera.ai — Summer 2020

- Machine Learning: 99th Percentile
- Mathematics: 98th Percentile
- Software Engineering: 95th Percentile
- Data Science: 94th Percentile

Stanley Z. Koplik Certificate of Mastery — Summer 2016

TECHNICAL SKILLS

SQL Server Management Studio, MySQL, Visual Basic .NET, UNIX, Python, Pandas, Scikit-Learn, NumPy, Prophet, TensorFlow, Keras, Java, C, C++, C#, MATLAB, HTML5, CSS3, JavaScript, MongoDB, AWS