

NISHAT TASNIM

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📍 Clarksville, Tennessee

🌐 <https://github.com/nishattasnim5709>

🌐 <https://www.linkedin.com/in/nishattasnim5709/>

🌐 <https://scholar.google.com/citations?user=7ousrIIAAAJ&hl=en&oi=sra>

🌐 <https://nishattasnim5709.gitbook.io/python/>

SKILLS

- **Statistical Concepts:** Regression, Probabilities, Time Series Analysis, and Applied statistics
- **Machine Learning:** Logistic Regression, Random Forest, Decision Trees, Isolation Forest, Gradient Descent, Support Vector Machine, Principal Component Analysis, Convolutional Neural Network
- **Stochastic Models:** Stochastic Process, Stochastic Volatility, Stochastic Differential Equation, Fast Fourier Transform.
- **Programming & Scripting Languages:** Python, R, C, JavaScript, Linux Shell Scripting
- **Frameworks & Libraries:** TensorFlow, Scikit-Learn, Keras, Matplotlib, Pandas, OpenCV, NLTK, PySpark
- **Platforms:** Google Colab, AWS SageMaker, Tableau, IBM Cloud, Arduino, Heroku
- **Database:** SQL
- **Version Control System:** Git

WORK EXPERIENCE

MS Teaching Assistant, MATH 1530 - Elements of Statistics

Austin Peay State University

Clarksville, TN

October 2021 – Present

- Assisted 30+ students during in-class exercises and homework assistance during in-office hours.
- Provided assistance to equip students with a firm foundational understanding of basic to mid-level statistics concepts and methodologies. Topics included basic probability models, combinations, random variables, discrete and continuous probability distributions, statistical estimation and testing, confidence intervals, and an introduction to linear regression.
- Assisted the professor by managing assistance records, grading homework, and proctoring students' exams.

MS Research Assistant

Austin Peay State University

Clarksville, TN

October 2021 – Present

- Experienced with high-dimensional and high-frequency data analysis.
- Collaborated with a group of scholars.
- Published high-quality peer-reviewed journal papers.
- Presented interaction visualization results in the national/international conferences.

SIGMIND

Deep Learning Engineer (Intern)

Dhaka, Bangladesh

February 2021 – July 2021

Masked Face Detection and Recognition

- Developed a Deep Learning model to automatically detect people wearing masks from the real-time video feed.
- Developed a Web Application to register faces in a database that readily recognizes the face and reveals the identity.

EDUCATION

Austin Peay State University

Expected Graduation: May 2023

Master of Science in Computer Science and Quantitative Methods

GPA: 4.0/4.0

Relevant Coursework: Probabilistic and Statistical Reasoning, Regression Analysis, Differential Equation and Stochastic Analysis

Daffodil International University

Awarded: June 2019

Bachelor of Science in Computer Science and Engineering

GPA: 3.7/4.0

Relevant Coursework: Object-Oriented Programming, Database Management System, Artificial Intelligence, Digital Image Processing, Data Mining, Introduction to Bio-Informatics,

ACHIEVEMENTS

- Applied Data Science Module (Unit I & II) Certificate- WorldQuant University, USA July 2020 - December 2020
- AI Professional Training Program - ICT Division of Bangladesh May 2020 - August 2020
Top Performer among 30 trainees
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - Coursera March 2020

RELEVANT PROJECTS

- **Building A Chatbot Application** December 2021
 - Developed a chatbot using MS SharePoint with Python and ML embedded application.
- **Volatility Estimation of COVID-19 Daily Rates** July 2021
 - Applied Stochastic Volatility Model with Kalman Filtering Technique
- **Bengali.AI Handwritten Grapheme Classification (Kaggle Competition)** June 2021
 - Analyzed 13,000 different graphemes of Bengali alphabets with 200840 training dataset (parquet image files)
 - Applied Convolutional Neural Network with Keras and TensorFlow
 - Implemented a number of serial non-linear layers as encoders as well as a corresponding set of decoders that work as pixel-wise classifiers
 - Enhanced the performance and accuracy by various algorithms like “data augmentation”, “resizing”, “dropout”
- **Parkinson's Syndrome Prediction** January 2021
 - Developed Supervised Models and analyzed data to obtain important features, devised data using train_test_split, evaluated R^2 to calculate the coefficient of determination
 - Demonstrated Bias-Variance tradeoff, performed GridSearchCV to optimize model, cross-validated using K-fold
 - Deployed the model on Heroku

MEMBERSHIP

- National Society of Black Engineers Present
- Society of Women Engineers Present
- Data Science Association Present