CURRICULUM VITAE

GOURAB DATTA

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Objective

To obtain an AI internship where I can apply my academic training in Computer Science and hands-on experience in Deep Learning, Machine Learning, and Data Analytics. Committed to contributing to innovative AI solutions while further developing expertise in model development, evaluation, and deployment within a collaborative, research-oriented environment.

Education

- **B.Sc. in Computer Science and Engineering (CSE)**
  Daffodil International University, Dhaka
  Year of Graduation: 2023
  CGPA: 3.61 out of 4.00

Technical Skills

- **Languages:** Python, SQL, C
- **Frameworks & Libraries:** TensorFlow, Keras, scikit-learn, pandas, NumPy, OpenCV
- **Data & ML Tools:** Jupyter Notebook, Google Colab, Visual Studio Code
- **Database:** MySQL, BigQuery
- **Version Control:** Git, GitHub
- **Other Tools:** MS Excel, PowerPoint, Figma, Adobe XD

Certifications

- Machine Learning Specialization – *Coursera*
- Neural Networks & Deep Learning – *Coursera*
- Python for Data Science, AI & Development - *Coursera*
- Google Data Analytics – *Coursera*
- SQL for Data Science – *Coursera*
- Crash Course on Python – *Coursera*

Projects & Thesis

1. **COMPARATIVE ANALYSIS OF FACE DISEASES DETECTION USING DEEP TRANSFER LEARNING & KERAS TUNER**
   Ongoing Research Project
   - Compared CNN architectures for facial disease detection with hyperparameter tuning and fine-tuning.
   - Tested models: DenseNet121, NashNetLarge, MobileNetV2, VGG16/19, ResNet50, InceptionV3.
   - DenseNet121 achieved **97.72% accuracy** post-optimization.
   - **Tech Stack:** Python, TensorFlow, Keras, Keras Tuner, NumPy
   - Future plans include ensemble methods, GAN-based data augmentation, and clinical deployment.

2. **IDENTIFICATION OF COVID-19, PNEUMONIA, LUNG CANCER & TB FROM CHEST X-RAY IMAGES: A DEEP TRANSFER LEARNING APPROACH**
   Final Year Thesis – Daffodil International University
   - Built a deep learning model to classify COVID-19, Pneumonia, Lung Cancer & TB from chest X-rays.
   - Used transfer learning with ResNet50, EfficientNet, VGG16/19, InceptionV3, and MobileNet.
   - Preprocessed a custom dataset, applied label encoding, and trained on an 80/20 split.
   - Evaluated with accuracy, F1-score, recall, and confusion matrix.
   - **Tech Stack:** Python, TensorFlow, Keras, NumPy, OpenCV

3. **BREAST CANCER PREDICTION USING ADVANCED ALGORITHM**
   Personal Project
   - Developed machine learning models to classify breast cancer as benign or malignant based on diagnostic features.
   - Trained models including Logistic Regression, Random Forest, Gradient Boosting, XGBoost, SVM, and Voting Classifier.
   - Preprocessed data with label encoding and scaling, followed by an 80/20 train-test split.
   - Evaluated models using accuracy, confusion matrix, and classification reports.
   - **Tech Stack:** Python, scikit-learn, XGBoost, NumPy, Pandas, Matplotlib

4. **HEART FAILURE PREDICTION USING VOTING CLASSIFIER**

    Personal Project

    - Designed a predictive system to identify heart failure risk based on patient medical records.
    - Trained multiple classifiers and combined them using a Voting Classifier approach. Conducted data preprocessing including encoding, scaling, and balancing the dataset.
    - Measured model performance using accuracy, F1-score, recall, and confusion matrix.
    - **Tech Stack:** Python, scikit-learn, Pandas, Matplotlib, NumPy

5. **DIABETES PREDICTION USING VOTING CLASSIFIER**

    Personal Project

    - Built an ensemble learning model to predict diabetes using health-related attributes from patient data.
    - Implemented individual classifiers like Logistic Regression, Decision Tree, and Random Forest.
    - Applied data cleaning, feature scaling, and train-test splitting.
    - Combined predictions using a soft Voting Classifier for improved accuracy and generalization.
    - **Tech Stack:** Python, scikit-learn, Pandas, NumPy, Matplotlib

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Additional Information

- **Languages**: Proficient in Both Bangla and English
- **Hobbies**: Photography, Music, Travelling

References

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