

# DEEP PATEL

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## EDUCATION

**Towson University- BS in Computer Science**

Towson, MD, May 2019

**GPA-3.98/4.00** | Summa Cum Laude, Dean's List (8x), International Student Scholarship.

*Relevant Coursework:*

**Computer Science:** Database Management, Scripting Languages, Data Structures and Algorithms, etc.

**Math:** Advanced Calculus, Differential Equations, Probability & Statistics, Linear Algebra

## TECHNICAL SKILLS AND INTERESTS

**Programming:** Java (5), **Python (5)**, C/C++ (3), MySQL (4), HTML5/CSS (3), Scala (3), JavaScript (3), Kotlin (3), NodeJS (1), Perl (1).

**Big Data / Machine Learning:** TensorFlow, Keras, Numpy, Pandas, Spark, Flask, BigQuery, Seaborn, Matplotlib, ScikitLearn.

**Other:** Android, Windows, Linux, Git, Google Cloud, AWS, Excel, Postman, Colab, Jupyter, Agile Practices

**Scale: 1-5 = beginner to advanced**

- ❖ Experience in applying and using Data science tools, Machine learning algorithms, and Deep Learning
- ❖ Android development in Kotlin including SQLite, MVC, Services, Fragments, etc.
- ❖ Data Visualization adeptness to gain important insights from the dataset.
- ❖ Agile software development methodologies, algorithm design and analysis.

**Hobbies/Interests:** Machine Learning/AI, Deep Learning, Research, Spacecrafts, Wildlife, Yoga, and History.

## EXPERIENCE

**Towson University - Computer Science Department**

Towson, MD

*Research Assistant*

August 2018 – May 2019

- Performed independent research on classification of edible wild plants using transfer learning.
- Trained and fine-tuned RESNET50 model and handled data imbalance to improve model performance by 15%.
- Carried out **Exploratory Data Analysis** and solved data imbalance using SMOTE techniques.
- Used Confusion matrix and ROI to evaluate the model performance.

**INSuRE - Johns Hopkins University -APL**

Baltimore, MD

*Machine Learning Lead*

December 2018 – May 2019

- Actively involved in all phases of data science project life cycle including **Data Extraction, Data Cleaning, Data Visualization** and **building Models**.
- Used **Natural Language Processing (NLP)** to detect malicious websites and deployed the model to **AWS**.
- Integrated the trained LSTM model into the backend of a chrome extension for ease of usage.
- Visualized the data using **TF-IDF and SHAP** to find accurate correlation between features.

## EXTRACURRICULAR ACTIVITIES

**Cool Dictionary Project, Group Leader**

- A smart dictionary for android to demonstrate android development skills in Kotlin.
- Used agile development techniques to lead the team of 4 members.
- Integrated TensorFlow lite model in the app for sentiment analysis using **NLP**
- The app used **RESTful API** from oxford dictionary.

**CheckCasher Java application, Solo Project**

- Developed a Java swing application for a business to keep track of check cashing customers using an embedded SQL (Apache Derby).
- Implemented required features using **object-oriented design** and **agile methodologies**.
- Wrote complex **SQL queries** to extract data from the database.