**Shanky Barak**

**EDUCATION**

* **B.Tech** **Mechanical Engineering**

**CGPA – 8.4 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **Class 12** – 85.33% **2019**

Institution:

* **Class 10** – 96.6% **2017**

Institution:

**PROJECTS**

**ANALYSIS OF FLUID FLOW OVER CYLINDER USING**

**POD**

Conducted analysis of flow over a cylinder using Proper Orthogonal Decomposition (POD) and Singular Value Decomposition (SVD) techniques.

Simplified complex data while preserving flow characteristics.

Highlighted benefits of these methods in developing efficient prediction models and emphasized the need for further research in fluid dynamics.

**CNN Dogs VS Cats**

A Convolutional Neural Network algorithm can extract critical features from any image.

Trained the algorithm using large datasets of cat and dog images minimizing the need for human intervention.

**Analysis of the English Football League**

Explored team diversity, goal-scoring patterns,

and match outcomes.

Identified correlations with home-ground advantage.

Determined the most effective defensive team.

**Object Detection and Classification using YOLO Algorithm**

Applied the algorithm to analyze videos and images.

Achieved accurate identification and

classification of custom objects.

**TECHNICAL SKILLS**

Python, SQL, Excel, Data Analysis, Tableau

**INTERNSHIP**

**Internship,** *Cosmos Media Products*

Collaborated cross-functionally to contribute to project success.

Supported team in completing diverse projects effectively.

**EXTRA CURRICULAR ACTIVITIES**

**Student Campus Ambassador**   
As a Wipro Campus Ambassador during my final year of college, I effectively represented and   
promoted the organization on campus, fostering student engagement and bridging the gap between academia and industry.