KOTWAL SIDDHESH ROHIDAS

B.Tech. - Computer Engineering
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MIT | Academy of Engineering
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

BRIEF SUMMARY

Passionate B.Tech Computer Engineering student with experience in machine learning, deep learning, and data science. Skilled in developing and optimizing ML models and applying AI techniques to solve real-world problems. Strong foundation in data structures and algorithms, and problem-solving, with a focus on creating efficient solutions for complex challenges.

KEY EXPERTISE

C++   Python   Core Java   HTML   CSS   Javascript   Flask   Web Development   SQL   Machine Learning   Data Science   Deep Learning   Problem Solving   Data Structures   Algorithms

EDUCATION

MIT Academy of Engineering, Pune	2022 - 2026
B.Tech. - Computer Engineering | CGPA: **9.24** / **10**	
Bharatiya Jain Sanghatana	2022
12th | State Board | Percentage: **87.67** / **100**	
Priyadarshani High School	2020
10th | State Board | Percentage: **90.80** / **100**	

PROJECTS

Neural Networks from Scratch in C++	22 Jun, 2024 - 30 Jul, 2024
Team Size: 1	

Key Skills: Neural Networks   C++

Project Link: https://github.com/SiddheshKotwal/Neural-Networks-From-Scratch-in-CPP-.git

Developed neural networks from scratch in C++ for classification and regression tasks. Utilized optimizers such as SGD, RMSProp, AdaGrad, and Adam, and implemented activation functions like ReLU, Sigmoid, and Softmax. Achieved 88% accuracy on the Fashion MNIST dataset, demonstrating a strong foundation in machine learning.

Applied Data Science Project	30 Jul, 2023 - 04 Nov, 2023
Team Size: 1	

Key Skills:

Data Analysis   Machine Learning   Python   SQL   Web Scraping   NumPy   Pandas   Scikit-Learn   Matplotlib   Data Visualization

Project Link: https://github.com/SiddheshKotwal/Applied-Data-Science-Capstone.git

Analyzed SpaceX Falcon 9 rocket landing data to build predictive models using Scikit-Learn. Identified key predictors such as payload mass, orbit type, and flight number, and used data visualization techniques to support cost reduction strategies.

GreenLink	30 Jun, 2023 - 05 Sep, 2023
Team Size: 1	

Key Skills: HTML   CSS   Javascript   Flask   SQLite   Python   Web Development

Project Link: https://github.com/SiddheshKotwal/GreenLink.git

Developed a platform utilizing HTML, CSS and Javascript for Frontend and Python and Flask as Backend, showcasing eco-friendly products and services while also including a carbon footprint calculator.

ASSESSMENTS / CERTIFICATIONS

CS50x Introduction to Computer Science

Key Skills: C · SQLite · Python · HTML · CSS · Javascript · Web Development · Flask · Problem Solving

Completed CS50x, Harvard's flagship introductory computer science course, covering algorithms, data structures, memory management, web development, and computational thinking. Gained hands-on experience in C, Python, SQL, and JavaScript through problem sets and projects.

IBM Data Science Specialization

Key Skills:

Web Scraping · Data Visualization · Data Analysis · Machine Learning · NumPy · Pandas · Matplotlib · MySQL

Scikit-Learn

Completed the IBM Data Science Specialization on Coursera, covering data analysis, visualization, machine learning, SQL, Python, and ML model deployment. Gained hands-on experience through projects using real-world datasets.

365 Data Science Statistics

Key Skills: hypothesis Testing · Statistical Inference · Statistics

Completed the Statistics course from 365 Data Science, covering fundamental concepts such as probability, distributions, hypothesis testing, regression analysis, and statistical inference. Developed practical data analysis skills through hands-on exercises.

NPTEL Deep Learning

Aggregate: 79 / 100

Key Skills: Deep Learning · Machine Learning

The course covered key topics such as neural networks, backpropagation, convolutional and recurrent neural networks, optimization techniques, and applications in computer vision and natural language processing. Assessed through weekly assignments and a proctored final exam, demonstrating proficiency in deep learning concepts and implementation.

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: Niraj Apt Jai hind colony Alandi Road Bhosari, Pune, Pune, Maharashtra, India - 411039

Emails: siddhesh.kotwal@mitaoe.ac.in , siddheshkotwal379@gmail.com

Date of Birth: 22 Feb, 2004

Known Languages: English, Hindi, Marathi

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