

Suvinava Basak

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EDUCATION

Technische Universität Braunschweig

Master of Science in Data Science

October 2023 – Ongoing

Braunschweig, Germany

Indian Institute of Management Indore

Master of Business Administration

July 2016 – March 2018

Indore, India

West Bengal University of Technology

Bachelor of Technology in Computer Science and Engineering

August 2010 – June 2014

Jalpaiguri, India

PROFESSIONAL EXPERIENCE

Technische Universität Braunschweig, Institut für Analysis und Algebra

Student Hilfswissenschaftler

April 2025 – Ongoing

Braunschweig, Germany

- Evaluated student assistants and conducted tutorials for the course “Mathematical Algorithms and Programming 2” at TU Braunschweig.

Volkswagen Financial Services AG

Intern, Data Analytics & AI team

August 2024 – February 2025

Braunschweig, Germany

- Collaborated on developing a ML model for automating invoice analysis and approval in contractual vehicle maintenance workflows.
- Designed and implemented a multi-stage Docker setup to optimize container security and reduce build time for deployment pipelines.

Wipro Ltd.

Strategy Consultant

April 2018 – October 2023

Bangalore, India

- Identified innovation opportunities in AI/ML through industry research and competitive analysis, driving concept-to-implementation.
- Scouted strategic partners in AI/ML and led startup alliance from engagement to PoC development and joint Go-To-Market planning.
- Owned and liaised with concerned teams for solution strategy, RFX responses, pricing for engineering services customers.
- Briefly managed a cross-functional team for the planning and development of an in-house autonomous vehicle prototype, Wipod.

Ericsson Global India Services Pvt. Ltd.

Solution Integrator

March 2015 – June 2016

Kolkata, India

- Configured a billing system for a leading US-based mobile carrier and end-to-end system integration.
- Analyzed previous usage data to come up with several billing plans.

PROJECTS

Covariate Shift Regularization with Kernel

(Gradient Descent, Linear Regression)

Explored effect of covariate shift on model generalization in linear regression settings using gradient descent and proposed mitigation strategies using importance weighting with estimated by kernel density estimation and self-attention mechanisms to improve model generalization.

Binary AMR Prediction from PBP4 Gene using Transformers

(DNABERT, Nucleotide Transformer, PyTorch)

Performed a comparative analysis of binary antimicrobial resistance prediction for *Staphylococcus aureus* against Cefoxitin, using the *pbp4* gene sequences as input across various encoder-only pretrained transformer models.

Face Recognition System using MATLAB

(Principal Component Analysis, MATLAB)

Created a face recognition system in MATLAB using Principal Component Analysis (PCA) for feature extraction. The system compares feature vectors to identify the closest match from the training set for a given test image.

Consumer Behavior Study of an Indian Green Tea Brand

(Discriminant Analysis, SPSS)

Conducted primary research and Discriminant Analysis to evaluate consumer perception of Tetley tea and recommend promotional strategies

ADDITIONAL ONLINE COURSES (Coursera)

- Machine Learning Specialization** (offered by DeepLearning.AI and Stanford University)
– covers *Supervised and Unsupervised ML Algorithms*
- Mathematics for Machine Learning and Data Science Specialization** (offered by DeepLearning.AI)
– covers *Linear Algebra, Calculus, and Probability & Statistics*

ACCOMPLISHMENTS

- Wipro*: Received award for “Customer Centricity” for Q1 FY2023 and Excellence Award for Q3 - Q4 FY2019
- Ericsson*: Received Spot Award in Ericsson for Q3 FY16

TECHNICAL SKILLS (Languages and Platforms)

Python	●●●●○	Julia	●○○○○	Java	●●●○○	SQL	●●●○○
Docker	●○○○○	Power BI	●●●○○	Tableau	●●○○○	QlikView	●●●○○