



KULDEEP BHARDWAJ



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Electrical Engineering (Power and Automation)	Indian Institute of Technology Delhi	5.55
2017	RBSE	Shiv Jyoti Senior Secondary School, Kota	87.60
2015	RBSE	Shree Rajeshwar Vidya Mandir, Mandar	93.17

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination (JEE) Advanced:** Secured **AIR 2991** (GE) out of 2 lakh students (2018)
- **Joint Entrance Examination (JEE) Mains:** Secured **AIR 7692** (GE) out of 12 lakh competing students (2018)
- **District Merit:** Secured **5th** rank in 10th board examination among 10,000+ students in the district (RBSE) (2015)

INTERNSHIPS

- **Data Analyst Intern, AdCity Mart Pvt. Ltd. | DELHI | Natural Language Processing** (May, 2021 - July, 2021)
 - Built **BERT-based NLP pipeline** for **topic modeling** customer feedback, boosting sentiment detection accuracy by **35%**
 - Automated **agent performance tracking** with **Pandas & NumPy**, cutting manual analysis time by **70%** across reporting cycles
 - Deployed scalable workflows with **AWS**, streamlining data pipelines and improving overall data handling efficiency
 - Built **like/dislike feedback system** for customer support, boosting feedback by **60%** and cutting unresolved queries by **25%**

PROJECTS

- **Urban Mobility Data Analysis: Ride Demand Forecasting | Time-Series Forecasting** (Feb, 2024 - March, 2024)
 - Analyzed Uber ride records to uncover **spatiotemporal** demand patterns, peak hours, and location trends
 - Built **time-series forecasting models** with **Streamlit** dashboard to predict and visualize ride demands
 - Implemented data pipelines with **Pandas and SQL** for cleaning, storage, querying, and geospatial visualization for insights
- **Personalized Retail Product Recommendation System | ML, Recommender Systems** (Sep, 2024 - Nov, 2024)
 - Built a **hybrid recommendation system** by integrating Collaborative filtering, matrix factorization, content-based ML
 - Built a modular **ML pipeline** for preprocessing, training, and evaluation (Precision@K, Recall@K) on 100K+ records
- **Credit Card Fraud Detection | Deep Learning, Model Interpretability** (Feb, 2025 - April, 2025)
 - Built a robust deep learning fraud detection system on 100K+ financial transactions using PyTorch/TensorFlow
 - Addressed **<1%** class imbalance using **SMOTE**, undersampling, and class-weighted supervised and unsupervised models
 - Evaluated models with **ROC-AUC** and Precision-Recall and applied **SHAP/LIME** to explain key fraud drivers
- **Pac-Man Navigation System for Maze World | Data Structure and Algorithms** (Sep, 2024)
 - Developed a 2D Pac-Man navigation system using **graph traversal (DFS)** to find safe, optimal paths around ghosts
 - Built **OOP** Navigator with **stack-based traversal**, **backtracking**, and visited-cell tracking for efficient maze exploration

TECHNICAL SKILLS

- **Programming Languages and Software:** Python, Java, C++, MATLAB, VS Code, GitHub, Jupyter Notebook, Solidworks, Postman
- **ML and AI Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Seaborn, Keras, Streamlit
- **AWS and Databases:** EC2, S3, Lambda, SQS, MongoDB, DynamoDB | **Certificate:** Algorithmic Toolbox (Coursera)
- **Relevant Courses:** Probability and Stochastic Process, Data Structures and Algorithms, Data Science, Digital Signal Processing

EXTRA CURRICULAR ACTIVITIES

- **OCS Volunteer, Office of Career Services** (August, 2019 - March, 2020)
 - Acted as a liaison between the Institute and company executives, ensuring clear **communication** and decorum
 - Assisted in organizing career service events, handling logistics and fostering a **positive** recruiter-student environment

POSITIONS OF RESPONSIBILITY

- **Volunteer, Indian Road Safety Campaign (IRSC)** (Jan, 2020)
 - Raised public awareness on road safety and traffic rules during the Indian Road Safety Campaign at Red Fort
 - Distributed educational materials and engaged diverse audiences to promote safe driving and accident prevention
 - Demonstrated leadership and communication to ensure campaign success and promote key safety messages
- **Junior Engineer, Accumulator Department, Axlr8r Formula Racing Club** (Aug, 2018 - March, 2020)
 - Contributed to Formula Student Germany 2019, securing 25th rank among 100+ universities in the EV category
 - Maintained and optimized Li-ion battery systems, ensuring peak performance and safety under high-stress race conditions
 - Designed and implemented a 3D-printed cell holder for parallel-series configuration to support a **110 V** battery system



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IIT COURSE

Degree

B.Tech in Electrical Engineering (Power and Automation)

Institute

Indian Institute of Technology Delhi

CGPA

5.55

COURSES DONE

Intro. To Electrical Engg., Calculus, Electromagnetic Waves & meca., Engineering Mechanics, Introduction To Chemistry, Engg. Visualization & Comm., Product Realization Through Manufacturing, Linear Algebra & Diffe. Equa., Intro. To Computer Science, Digital Electronics, Electromechanics, Signals And Systems, Principles Of Elect. Materials, Intro. To Biology For Engineer, Introduction To Oceanography, Power Electr. & Energy Devices, Environmental Science, Modern Fiction, Operations Management, Introduction To Psychology, Embedded Systems, Microeconomics, Conservation And Recycling Practices In Rural Areas, Minor Design Project - I, Public Finance And Public Economics, Electromechanics, Thermal Sc. For Ele. Engineers, Power Engineering-i, Special Module On Inner Development 1, Thermal Sc. For Ele. Engineers, Digital Signal Processing, Calculus, Power Systems Protection, Power Electronics, Power Engineering-ii, Data Structures And Algorithms

QUALIFYING EXAM

- Joint Entrance Examination (JEE) Advanced Rank: 420 (OB)

EXTRA CURRICULAR ACTIVITIES

- 'OCS Volunteer (OCS Volunteer ECA 2020-21)
- Office of Career Services (August, 2019 - March, 2020) '