

# Purushottam Kumar

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## Summary:

Data Scientist and Full Stack Developer with a strong foundation in Python, SQL, C++, and Generative AI. Certified by IBM, Google, Microsoft, and ISC2 with hands-on experience in data analysis, machine learning, and end-to-end web development. Proven ability to develop scalable AI models, clean and visualize large datasets, and build interactive dashboards using tools like Power BI and Tableau. Experienced in deploying solutions for real-world problems through internships and personal projects. Passionate about solving complex business challenges using data-driven insights and AI-powered automation.

## Education:

Bachelor of Technology (B.Tech)

Major: Artificial Intelligence and Data Science

Institution: ARKA JAIN University, Jamshedpur, Jharkhand

Duration: 2024 – 2028

## Work Experience:

### Artificial Intelligence Engineer Intern

Shell (via AICTE & Edunet Foundation)

Apr 2025 – May 2025

- Executed a mentor-guided AI project focused on sustainability, tackling real-world environmental challenges using ML models.
- Conducted data import, cleaning, pre-processing, modeling, and performance evaluation.
- Created dashboards using DAX and visualized results through interactive reports.
- Participated in weekly feedback sessions and presented final project to a panel of Shell experts.
- Earned certifications in AI and sustainability through Shell and Edunet Foundation.

## Skills:

- **Programming & Query Languages:** Python, R, C++, SQL, PL/SQL, JavaScript, HTML5, CSS3
- **Data Science & Analytics:** Statistical Analysis, Data Cleaning, Exploratory Data Analysis (EDA), Predictive Modeling, Data Visualization, A/B Testing, Big Data
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, Generative AI, Neural Networks, CNNs, Regression, Classification, Clustering, Scikit-learn, TensorFlow, Keras
- **Data Visualization & BI Tools:** Power BI, Tableau, Matplotlib, Seaborn, Dash
- **Databases & Tools:** MySQL, PostgreSQL, Oracle, MongoDB, Jupyter Notebooks, Google Colab
- **Cloud & DevOps:** Microsoft Azure (DP-100), IBM Cloud, Git, GitHub
- **Web Development:** React.js, Node.js, Express.js, REST APIs, Front-End Design
- **Soft Skills:** Problem Solving, Critical Thinking, Team Leadership, Communication, Documentation, Agile Collaboration

## **Certifications:**

- [\*\*IBM Data Science Specialization\*\*](#)  
Covers Python, data analysis, visualization, machine learning, and end-to-end data science lifecycle.
- [\*\*Microsoft Azure Data Scientist Associate \(DP-100\)\*\*](#)  
Demonstrates expertise in building and deploying ML models on Azure cloud services.
- [\*\*ISC2 Systems Security Certified Practitioner \(SSCP\)\*\*](#)  
Globally recognized certification validating skills in securing systems and managing data security.
- [\*\*Google Data Analytics Specialization\*\*](#)  
Focuses on SQL, R, data cleaning, visualization, and business analytics.
- [\*\*IBM AI Engineering\*\*](#)  
Advanced training in deep learning, neural networks, and scalable AI system design.
- [\*\*Oracle Advanced PL/SQL Developer Certified Professional\*\*](#)  
Validates strong skills in PL/SQL, database programming, and performance optimization.
- [\*\*Neural Networks and Deep Learning – DeepLearning.AI\*\*](#)  
Specialization in CNNs, gradient descent, backpropagation, and neural network architectures.
- [\*\*Machine Learning with Python \(with Honors\) – IBM\*\*](#)  
Covers regression, classification, clustering, SciPy, and Scikit-learn in real-world applications.

## **Projects:**

- [\*\*Breast Cancer Detection using CNN \(Deep Learning\)\*\*](#)  
Developed a convolutional neural network model to classify malignant and benign breast cancer images. Used Keras with TensorFlow backend for model development and OpenCV for image preprocessing. Achieved over 95% accuracy.  
Tools/Tech: Python, Keras, TensorFlow, CNN, OpenCV, NumPy
- [\*\*AutoMobile Sales Dashboard \(BI Web Application\)\*\*](#)  
Designed and developed a full-stack dashboard to analyze and visualize automotive sales data. Integrated multiple data sources, performed data cleaning, and built interactive visualizations with filters and KPIs. Deployed the dashboard for real-time insights and business intelligence reporting.  
Tools/Tech: Python, Dash, Plotly, Pandas, SQL,
- [\*\*Data Cleaning Pipeline – Google Capstone Project\*\*](#)  
Designed a data cleaning workflow for a real-world case study as part of the Google Data Analytics Capstone. Identified and resolved inconsistencies, null values, and formatting errors in customer and transaction datasets.  
Tools/Tech: SQL, R, Spreadsheets, Data Wrangling
- [\*\*Deep Neural Network from Scratch – Classification Model\*\*](#)  
Implemented a deep neural network from scratch using NumPy for binary classification. Covered forward propagation, backpropagation, gradient descent, cost optimization, and custom activation functions.  
Tools/Tech: Python, NumPy, Matplotlib, Deep Learning Fundamentals
- [\*\*Plant Disease Detection System – Shell AI Internship\*\*](#)  
Designed a machine learning system to detect plant diseases from leaf images as part of the Shell-AICTE-EduNet Foundation internship. Included image preprocessing, model training, evaluation, and GUI development. Presented the project to Shell experts during the regional showcase.  
**Tools/Tech:** Python, OpenCV, Scikit-learn, Streamlit