

Aakash Shyam Pal

Data Scientist

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🌐 <https://github.com/iamaakashpal> ↩ <https://iamaakashpal.github.io/>

PROFILE

Data-driven professional with over 1.6+ years of internship experience, specializing in machine learning and statistical modeling algorithms. Demonstrated expertise in end-to-end lifecycle analysis, including data gathering, cleansing, and providing actionable recommendations to optimize performance. Possess 1.10+ years of hands-on experience in Technical Support. Seeking to leverage these skills for a role as a Data Scientist.

SKILLS

Programming Languages (Python) • **Database Skills** (SQL (MySQL), NoSQL (MongoDB))

Machine Learning (Scikit-learn) • **Version Control Systems** (Git, GitHub, GitLab)

MLOps (Github Actions, Docker, Sagemaker) • **Natural Language Processing**

Cloud Platforms (AWS, Azure) • **Statistics** • **Rest API** (Flask) • **Data Visualization Tools** (Power BI)

Web Development Technologies (HTML, CSS, Bootstrap) • **Microsoft Office Suite** (Word, Excel, Outlook)

PROFESSIONAL EXPERIENCE

iNeuron.ai, *Machine Learning Intern* 🌐 08/2022 – present | Bengaluru, India

- Led the development of a impactful machine learning model using GradientBoostingRegressor, achieving an outstanding adjusted R-squared value of 0.87.
- Engineered a user-friendly Flask-based web application and seamlessly deployed it on AWS EC2.
- Recognized for achieving top-performing model status with a precision score of 87%.

The Sparks Foundation, 01/2023 – 02/2023 | India

Data Science and Business Analytics Intern 🌐

- Applied Linear Regression to anticipate students' academic performance based on study hours, revealing insights into performance patterns.
- Implemented the KMeans algorithm on the Iris dataset to identify optimal clusters for flower species classification, improving accuracy by 15% through effective data pattern visualization using the elbow method.
- Engineered a DecisionTreeClassifier for accurate prediction of flower species in the Iris dataset, attaining an impressive accuracy rate of 96% supported by clear graphical representations.

iNeuron.ai, *Business Intelligence Intern* 🌐 06/2022 – 07/2022 | Bengaluru, India

- Addressed the challenges of bird strikes in aviation by analyzing critical metrics.
- Constructed a Power BI dashboard to visualize FAA bird strike data (2000–2011) for the United States.
- Successfully highlighted landing phases as particularly vulnerable to bird strikes, with gulls frequently involved.

Dytel Technology Group, *Technical Support* 🌐 02/2020 – 11/2021 | Mumbai, India

- Collected and organized food item data from diverse sources, precisely categorizing it within Excel.
- Transformed Excel files into Microsoft Access (.mdb) format for efficient data handling and integration into restaurant software systems.
- Utilized SQL for managing and querying databases to enhance data integration processes.

- Installed and configured restaurant software systems, ensuring seamless integration and optimal performance.
- Provided prompt and effective technical support to customers, addressing software-related issues via phone calls.

PROJECTS

Insurance Premium Prediction

11/2022 – 02/2023

- Conducted advanced data science techniques to clean and analyze a dataset of 1337 rows and 7 columns, incorporating thorough data cleaning and feature engineering.
- Chose the GradientBoostingRegressor model based on superior R-squared and adjusted R-squared scores, attaining an outstanding adjusted R-squared score of 0.87 on the test dataset, explaining 87% of the variation in health insurance premiums.
- Developed and deployed a user-friendly Flask-based web application hosted on AWS EC2, ensuring seamless and global accessibility.
- Implemented a robust CI/CD pipeline using GitHub Actions, guaranteeing continuous model updates with the latest data, and gained recognition as the top-performing model with a precision of 87%.

Data Visualization of Bird Strikes

06/2022 – 07/2022

- Developed an extensive Power BI dashboard, visualizing FAA bird strike data (2000–2011) for the United States.
- Analyzed crucial metrics to pinpoint high-risk flight phases and bird species associated with bird strikes, delivering valuable insights for aviation safety.
- Identified landing phases as particularly vulnerable to bird strikes, especially with gulls involved, contributing to the enhancement of safety protocols.
- Leveraged Power BI's interactive features, empowering stakeholders to explore and comprehend the data, facilitating informed decision-making.

EDUCATION

Parle Tilak Vidyalyaya Association's Sathaye College,

07/2016 – 05/2019 | Mumbai, India

Bachelor of Science in Information Technology

- Cumulative Grade Performance Index (CGPI): **6.98/10**

INTERESTS

Data Scientist • Machine Learning Engineer • Data Analyst