Nakuja internship Team meeting

Progress report format

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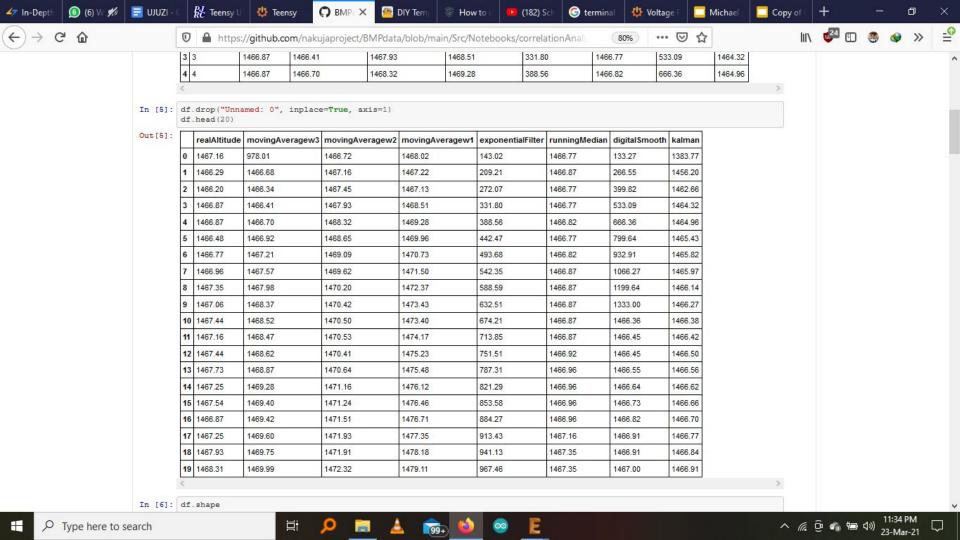
Tasks carried last week

Parachute deployment programming

Worked with various filters

Collected BMP data for filter correlation; Settled on three filters;

- Write up all the components
- PCB design of the avionics bay



```
corr1, _ = pearsonr(df['realAltitude'], df['runningMedian'])
corr2, _ = pearsonr(df['realAltitude'], df['digitalSmooth'])
corr3, _ = pearsonr(df['realAltitude'], df['kalman'])

print('Pearsons correlation')

print("RunningMedian: ", corr1)
print("DigitalSmooth: ", corr2)
print("Kalman: ", corr3)
```

calculate Pearson's correlation

Pearsons correlation

Kalman: 0.841414322887028

RunningMedian: 0.9201272993727314 DigitalSmooth: 0.9477330437129308

Tasks in this week

- SD card module with 3V3 logic
- More tests to determine the suitable sensor filter
- Write up all the components
- PCB design

TIMELINE

Month	Week	Tasks
Mar	Week 1	Research and acquisition of sensors
	Week 2	Ignition and parachute deployment programming
	Week 3	PCB design of the avionics bay
		2. Parachute deployment programming
		3. Avionics components
	Week 4	SD card module with 3v3 regulator
		2. More filter tests
		3. Pcb design
		Acquire prototyping board
Apr	Week 1	Avionics bay development
	Week 2	Airframe integration
	Week 3	Integration with propulsion
	Week 4	Launch N-1 rocket